

# Material Safety Data Sheet

Konform® Ultra

## 1. Product and company identification

|                             |  |
|-----------------------------|--|
| <b>Product name</b>         | : Konform® Ultra   |
| <b>Supplier</b>             | : COMPANY NAME<br>COMPANY ADDRESS<br>EMERGENCY TELEPHONE   |
| <b>Material uses</b>        | : Coatings: Lacquers.  |
| <b>Manufacturer</b>         | : ITW Chemtronics<br>8125 Cobb Center Drive<br>Kennesaw, GA 30152<br><br>Tel. 770-424-4888 or toll free 800-645-5244 |
| <b>Code</b>                 | : CTUFD1, CTUFD5 and CTUFD 55  |
| <b>Validation date</b>      | : 2/22/2013.   |
| <b>Print date</b>           | : 2/22/2013.   |
| <b>In case of emergency</b> | : Chemtrec - 1-800-424-9300 or collect 703-527-3887  |
| <b>Product type</b>         | : Liquid.  |

## 2. Hazards identification

### Emergency overview

|                               |   |
|-------------------------------|---|
| <b>Physical state</b>         | : Liquid. [Clear viscous liquid.]   |
| <b>Color</b>                  | : Clear. Colorless. [Light]   |
| <b>Odor</b>                   | : Characteristic.   |
| <b>Signal word</b>            | : WARNING!  |
| <b>Hazard statements</b>      | : FLAMMABLE LIQUID AND VAPOR. COMBUSTIBLE. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.  |
| <b>Precautionary measures</b> | : Do not breathe vapor or mist. Use only with adequate ventilation. Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Keep container tightly closed. Wash thoroughly after handling. |
| <b>OSHA/HCS status</b>        | : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).   |

### Potential acute health effects

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | : No known significant effects or critical hazards. |
| <b>Ingestion</b>  | : No known significant effects or critical hazards. |
| <b>Skin</b>       | : May cause skin irritation.                        |
| <b>Eyes</b>       | : May cause eye irritation.                         |

### Potential chronic health effects

|                              |   |
|------------------------------|---|
| <b>Chronic effects</b>       | : Contains material that can cause target organ damage.   |
| <b>Carcinogenicity</b>       | : No known significant effects or critical hazards.   |
| <b>Mutagenicity</b>          | : No known significant effects or critical hazards.   |
| <b>Teratogenicity</b>        | : No known significant effects or critical hazards.   |
| <b>Developmental effects</b> | : No known significant effects or critical hazards.   |
| <b>Fertility effects</b>     | : No known significant effects or critical hazards.   |
| <b>Target organs</b>         | : Contains material which causes damage to the following organs: eye, lens or cornea.<br>Contains material which may cause damage to the following organs: lungs, liver, upper respiratory tract, skin, central nervous system (CNS). |

**Konform® Ultra**

## 2. Hazards identification

### Over-exposure signs/symptoms

**Inhalation** : No specific data.

**Ingestion** : No specific data.

**Skin** : No specific data.

**Eyes** : No specific data.

**Medical conditions aggravated by over-exposure** : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

## 3. Composition/information on ingredients

### United States

| Name                      | CAS number | %       |
|---------------------------|------------|---------|
| Acetic acid, propyl ester | 109-60-4   | 25 - 50 |
| 2-Propanone               | 67-64-1    | 25 - 50 |
| heptane                   | 142-82-5   | 10 - 25 |

### Canada

| Name                      | CAS number | %       |
|---------------------------|------------|---------|
| Acetic acid, propyl ester | 109-60-4   | 25 - 50 |
| 2-Propanone               | 67-64-1    | 25 - 50 |
| heptane                   | 142-82-5   | 10 - 25 |

### Mexico

| Name                      | CAS number | UN number | %       | IDLH     | Classification |   |   |         |
|---------------------------|------------|-----------|---------|----------|----------------|---|---|---------|
|                           |            |           |         |          | H              | F | R | Special |
| Acetic acid, propyl ester | 109-60-4   | UN1993    | 25 - 50 | 1700 ppm | 0              | 3 | 0 | -       |
| 2-Propanone               | 67-64-1    | UN1993    | 25 - 50 | 2500 ppm | 0              | 3 | 0 | -       |
| heptane                   | 142-82-5   | UN1993    | 10 - 25 | 750 ppm  | 0              | 3 | 0 | -       |

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.

## 4. First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- 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.

## 4. First aid measures

**Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. Fire-fighting measures

**Flammability of the product** : Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

### Extinguishing media

**Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Not suitable** : Do not use water jet.

**Special exposure hazards** : 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.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

**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.

## 6. Accidental release measures

**Personal precautions** : 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 (see Section 8).

**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 for cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. 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. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. 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). Use spark-proof tools and explosion-proof equipment. 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.

## 7. Handling and storage

**Handling** : Put on appropriate personal protective equipment (see Section 8). 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. Do not ingest. Avoid contact with eyes, skin and clothing. 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

## 7. Handling and storage

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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Storage

: 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. 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.

## 8. Exposure controls/personal protection

### United States

| Ingredient                | Exposure limits   |
|---------------------------|---|
| Acetic acid, propyl ester | <p><b>ACGIH TLV (United States, 1/2009).</b><br/>           STEL: 1040 mg/m<sup>3</sup> 15 minute(s).<br/>           STEL: 250 ppm 15 minute(s).<br/>           TWA: 835 mg/m<sup>3</sup> 8 hour(s).<br/>           TWA: 200 ppm 8 hour(s).</p> <p><b>NIOSH REL (United States, 6/2008).</b><br/>           STEL: 1050 mg/m<sup>3</sup> 15 minute(s).<br/>           STEL: 250 ppm 15 minute(s).<br/>           TWA: 840 mg/m<sup>3</sup> 10 hour(s).<br/>           TWA: 200 ppm 10 hour(s).</p> <p><b>OSHA PEL (United States, 11/2006).</b><br/>           TWA: 840 mg/m<sup>3</sup> 8 hour(s).<br/>           TWA: 200 ppm 8 hour(s).</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b><br/>           STEL: 1050 mg/m<sup>3</sup> 15 minute(s).<br/>           STEL: 250 ppm 15 minute(s).<br/>           TWA: 840 mg/m<sup>3</sup> 8 hour(s).<br/>           TWA: 200 ppm 8 hour(s).</p> |
| 2-Propanone               | <p><b>ACGIH TLV (United States, 1/2009).</b><br/>           STEL: 1782 mg/m<sup>3</sup> 15 minute(s).<br/>           STEL: 750 ppm 15 minute(s).<br/>           TWA: 1188 mg/m<sup>3</sup> 8 hour(s).<br/>           TWA: 500 ppm 8 hour(s).</p> <p><b>NIOSH REL (United States, 6/2008).</b><br/>           TWA: 590 mg/m<sup>3</sup> 10 hour(s).<br/>           TWA: 250 ppm 10 hour(s).</p> <p><b>OSHA PEL (United States, 11/2006).</b><br/>           TWA: 2400 mg/m<sup>3</sup> 8 hour(s).<br/>           TWA: 1000 ppm 8 hour(s).</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b><br/>           STEL: 2400 mg/m<sup>3</sup> 15 minute(s).<br/>           STEL: 1000 ppm 15 minute(s).<br/>           TWA: 1800 mg/m<sup>3</sup> 8 hour(s).<br/>           TWA: 750 ppm 8 hour(s).</p>  |
| heptane                   | <p><b>ACGIH TLV (United States, 2/2010).</b><br/>           TWA: 400 ppm 8 hour(s).<br/>           TWA: 1640 mg/m<sup>3</sup> 8 hour(s).<br/>           STEL: 500 ppm 15 minute(s).</p>   |

## 8. Exposure controls/personal protection

STEL: 2050 mg/m<sup>3</sup> 15 minute(s).  
**OSHA PEL 1989 (United States, 3/1989).**  
 TWA: 400 ppm 8 hour(s).  
 TWA: 1600 mg/m<sup>3</sup> 8 hour(s).  
 STEL: 500 ppm 15 minute(s).  
 STEL: 2000 mg/m<sup>3</sup> 15 minute(s).  
**NIOSH REL (United States, 6/2009).**  
 TWA: 85 ppm 10 hour(s).  
 TWA: 350 mg/m<sup>3</sup> 10 hour(s).  
 CEIL: 440 ppm 15 minute(s).  
 CEIL: 1800 mg/m<sup>3</sup> 15 minute(s).  
**OSHA PEL (United States, 6/2010).**  
 TWA: 500 ppm 8 hour(s).  
 TWA: 2000 mg/m<sup>3</sup> 8 hour(s).

### Canada

| <u>Occupational exposure limits</u> |                 | TWA (8 hours) |                   |       | STEL (15 mins) |                   |       | Ceiling |                   |       | Notations |
|-------------------------------------|-----------------|---------------|-------------------|-------|----------------|-------------------|-------|---------|-------------------|-------|-----------|
| Ingredient                          | List name       | ppm           | mg/m <sup>3</sup> | Other | ppm            | mg/m <sup>3</sup> | Other | ppm     | mg/m <sup>3</sup> | Other |           |
| 2-Propanone                         | US ACGIH 1/2009 | 500           | 1188              | -     | 750            | 1782              | -     | -       | -                 | -     |           |
|                                     | AB 6/2008       | 750           | 1800              | -     | 1000           | 2400              | -     | -       | -                 | -     |           |
|                                     | BC 6/2008       | 250           | -                 | -     | 500            | -                 | -     | -       | -                 | -     |           |
|                                     | ON 6/2008       | 500           | -                 | -     | 750            | -                 | -     | -       | -                 | -     |           |
|                                     | QC 6/2008       | 500           | 1190              | -     | 1000           | 2380              | -     | -       | -                 | -     |           |
| Acetic acid, propyl ester           | US ACGIH 1/2009 | 200           | 835               | -     | 250            | 1040              | -     | -       | -                 | -     |           |
|                                     | AB 6/2008       | 200           | 835               | -     | 250            | 1040              | -     | -       | -                 | -     |           |
|                                     | BC 6/2008       | 200           | -                 | -     | 250            | -                 | -     | -       | -                 | -     |           |
|                                     | ON 6/2008       | 200           | 830               | -     | 250            | 1040              | -     | -       | -                 | -     |           |
|                                     | QC 6/2008       | 200           | 835               | -     | 250            | 1040              | -     | -       | -                 | -     |           |
| heptane                             | US ACGIH 2/2010 | 400           | 1640              | -     | 500            | 2050              | -     | -       | -                 | -     |           |
|                                     | AB 4/2009       | 400           | 1640              | -     | 500            | 2050              | -     | -       | -                 | -     |           |
|                                     | BC 9/2010       | 400           | -                 | -     | 500            | -                 | -     | -       | -                 | -     |           |
|                                     | ON 7/2010       | 400           | 1640              | -     | 500            | 2050              | -     | -       | -                 | -     |           |
|                                     | QC 6/2008       | 400           | 1640              | -     | 500            | 2050              | -     | -       | -                 | -     |           |

[3]Skin sensitization

### Mexico

#### Occupational exposure limits

| Ingredient                | Exposure limits  |
|---------------------------|--|
| Acetic acid, propyl ester | <b>NOM-010-STPS (Mexico, 9/2000).</b><br>LMPE-CT: 1050 mg/m <sup>3</sup> 15 minute(s).<br>LMPE-CT: 250 ppm 15 minute(s).<br>LMPE-PPT: 840 mg/m <sup>3</sup> 8 hour(s).<br>LMPE-PPT: 200 ppm 8 hour(s).                         |
| 2-Propanone               | <b>NOM-010-STPS (Mexico, 9/2000).</b><br>LMPE-CT: 3000 mg/m <sup>3</sup> 15 minute(s).<br>LMPE-CT: 1260 ppm 15 minute(s).<br>LMPE-PPT: 2400 mg/m <sup>3</sup> 8 hour(s).<br>LMPE-PPT: 1000 ppm 8 hour(s).                      |
| heptane                   | <b>NOM-010-STPS (Mexico, 9/2000). Absorbed through skin.</b><br>LMPE-PPT: 400 ppm 8 hour(s).<br>LMPE-PPT: 1600 mg/m <sup>3</sup> 8 hour(s).<br>LMPE-CT: 2000 mg/m <sup>3</sup> 15 minute(s).<br>LMPE-CT: 500 ppm 15 minute(s). |

Consult local authorities for acceptable exposure limits.

## 8. Exposure controls/personal protection

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : 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.
- 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.
- Personal protection**
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : 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.
- Eyes** : 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 or dusts.
- Skin** : 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.
- 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.

## 9. Physical and chemical properties

- Physical state** : Liquid. [Clear viscous liquid.]
- Flash point** : Closed cup: 49°C (120.2°F) [Tagliabue.]
- Color** : Clear. Colorless. [Light]
- Odor** : Characteristic.

## 10. Stability and reactivity

- Chemical stability** : The product is stable.
- 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.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

### United States

#### Acute toxicity

| Product/ingredient name | Result                | Species | Dose                 | Exposure |
|-------------------------|-----------------------|---------|----------------------|----------|
| acetone                 | LD50 Oral             | Rat     | 5800 mg/kg           | -        |
| propyl acetate          | LD50 Oral             | Rat     | 9370 mg/kg           | -        |
| heptane                 | LC50 Inhalation Gas.  | Rat     | 48000 ppm            | 4 hours  |
|                         | LC50 Inhalation Vapor | Rat     | 103 g/m <sup>3</sup> | 4 hours  |

**Conclusion/Summary** : Not available.

#### Chronic toxicity

**Conclusion/Summary** : Not available.

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure                 | Observation |
|-------------------------|--------------------------|---------|-------|--------------------------|-------------|
| acetone                 | Eyes - Mild irritant     | Human   | -     | 186300 parts per million | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 10 microliters           | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 20 milligrams   | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 20 milligrams            | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams  | -           |
| propyl acetate          | Skin - Mild irritant     | Rabbit  | -     | 395 milligrams           | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams  | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 500 milligrams           | -           |
|                         |                          |         |       |                          |             |
|                         |                          |         |       |                          |             |

**Conclusion/Summary** : Not available.

#### Sensitizer

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Classification

| Product/ingredient name   | OSHA | IARC | NTP | ACGIH | EPA | NIOSH |
|---------------------------|------|------|-----|-------|-----|-------|
| Acetic acid, propyl ester | -    | -    | -   | -     | -   | None. |
| 2-Propanone               | -    | -    | -   | A4    | -   | None. |

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Canada

#### Acute toxicity

| Product/ingredient name | Result                | Species | Dose                 | Exposure |
|-------------------------|-----------------------|---------|----------------------|----------|
| acetone                 | LD50 Oral             | Rat     | 5800 mg/kg           | -        |
| propyl acetate          | LD50 Oral             | Rat     | 9370 mg/kg           | -        |
| heptane                 | LC50 Inhalation Gas.  | Rat     | 48000 ppm            | 4 hours  |
|                         | LC50 Inhalation Vapor | Rat     | 103 g/m <sup>3</sup> | 4 hours  |



## 11. Toxicological information

**Conclusion/Summary** : Not available.

### Chronic toxicity

**Conclusion/Summary** : Not available.

### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure                 | Observation |
|-------------------------|--------------------------|---------|-------|--------------------------|-------------|
| acetone                 | Eyes - Mild irritant     | Human   | -     | 186300 parts per million | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 10 microliters           | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 20 milligrams   | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 20 milligrams            | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams  | -           |
| propyl acetate          | Skin - Mild irritant     | Rabbit  | -     | 395 milligrams           | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams  | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 500 milligrams           | -           |

**Conclusion/Summary** : Not available.

### Sensitizer

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Classification

| Product/ingredient name   | ACGIH | IARC | EPA | NIOSH | NTP | OSHA |
|---------------------------|-------|------|-----|-------|-----|------|
| Acetic acid, propyl ester | -     | -    | -   | None. | -   | -    |
| 2-Propanone               | A4    | -    | -   | None. | -   | -    |

### Mutagenicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Mexico

### Acute toxicity

| Product/ingredient name | Result                | Species | Dose                 | Exposure |
|-------------------------|-----------------------|---------|----------------------|----------|
| acetone                 | LD50 Oral             | Rat     | 5800 mg/kg           | -        |
| propyl acetate          | LD50 Oral             | Rat     | 9370 mg/kg           | -        |
| heptane                 | LC50 Inhalation Gas.  | Rat     | 48000 ppm            | 4 hours  |
|                         | LC50 Inhalation Vapor | Rat     | 103 g/m <sup>3</sup> | 4 hours  |

**Conclusion/Summary** : Not available.

### Chronic toxicity

**Conclusion/Summary** : Not available.

### Irritation/Corrosion



## 11. Toxicological information

| Product/ingredient name | Result                   | Score  | Score | Exposure                 | Observation |
|-------------------------|--------------------------|--------|-------|--------------------------|-------------|
| acetone                 | Eyes - Mild irritant     | Human  | -     | 186300 parts per million | -           |
|                         | Eyes - Mild irritant     | Rabbit | -     | 10 microliters           | -           |
|                         | Eyes - Moderate irritant | Rabbit | -     | 24 hours 20 milligrams   | -           |
|                         | Eyes - Severe irritant   | Rabbit | -     | 20 milligrams            | -           |
|                         | Skin - Mild irritant     | Rabbit | -     | 24 hours 500 milligrams  | -           |
| propyl acetate          | Skin - Mild irritant     | Rabbit | -     | 395 milligrams           | -           |
|                         | Eyes - Mild irritant     | Rabbit | -     | 24 hours 500 milligrams  | -           |
|                         | Skin - Mild irritant     | Rabbit | -     | 500 milligrams           | -           |

**Conclusion/Summary** : Not available.

### Sensitizer

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Classification

| Product/ingredient name   | ACGIH | IARC | EPA | NIOSH | NTP | OSHA |
|---------------------------|-------|------|-----|-------|-----|------|
| Acetic acid, propyl ester | -     | -    | -   | None. | -   | -    |
| 2-Propanone               | A4    | -    | -   | None. | -   | -    |

### Mutagenicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

## 12. Ecological information

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

### United States

#### Aquatic ecotoxicity

| Product/ingredient name | Result                                     | Species                           | Exposure |
|-------------------------|--|-----------------------------------|----------|
| acetone                 | Acute EC50 20.565 mg/l Marine water        | Algae - Ulva pertusa              | 96 hours |
|                         | Acute LC50 6000000 µg/l Fresh water        | Crustaceans - Gammarus pulex      | 48 hours |
|                         | Acute LC50 10000 µg/l Fresh water          | Daphnia - Daphnia magna           | 48 hours |
|                         | Acute LC50 5600 ppm Fresh water            | Fish - Poecilia reticulata        | 96 hours |
|                         | Chronic NOEC 4.95 mg/l Marine water        | Algae - Ulva pertusa              | 96 hours |
|                         | Chronic NOEC 0.1 ml/L Fresh water          | Daphnia - Daphnia magna - Neonate | 21 days  |
|                         |  | Fish - Pimephales promelas        | 96 hours |
| propyl acetate          | Acute LC50 60000 to 64000 µg/l Fresh water |                                   |          |
| heptane                 | Acute LC50 375000 µg/l Fresh water         | Fish - Oreochromis mossambicus    | 96 hours |

**Conclusion/Summary** : Not available.

### Persistence/degradability

**Conclusion/Summary** : Not available.

## 12. Ecological information

### Canada

#### Aquatic ecotoxicity

| Product/ingredient name | Result   | Species  | Exposure  |
|-------------------------|--|--|---|
| acetone                 | Acute EC50 20.565 mg/l Marine water<br>Acute LC50 6000000 µg/l Fresh water<br>Acute LC50 10000 µg/l Fresh water<br>Acute LC50 5600 ppm Fresh water<br>Chronic NOEC 4.95 mg/l Marine water<br>Chronic NOEC 0.1 ml/L Fresh water | Algae - Ulva pertusa<br>Crustaceans - Gammarus pulex<br>Daphnia - Daphnia magna<br>Fish - Poecilia reticulata<br>Algae - Ulva pertusa<br>Daphnia - Daphnia magna - Neonate | 96 hours<br>48 hours<br>48 hours<br>96 hours<br>96 hours<br>21 days |
| propyl acetate          | Acute LC50 60000 to 64000 µg/l Fresh water   | Fish - Pimephales promelas   | 96 hours  |
| heptane                 | Acute LC50 375000 µg/l Fresh water   | Fish - Oreochromis mossambicus   | 96 hours  |

**Conclusion/Summary** : Not available.

#### Persistence/degradability

**Conclusion/Summary** : Not available.

### Mexico

#### Aquatic ecotoxicity

| Product/ingredient name | Result   | Species  | Exposure  |
|-------------------------|--|--|---|
| acetone                 | Acute EC50 20.565 mg/l Marine water<br>Acute LC50 6000000 µg/l Fresh water<br>Acute LC50 10000 µg/l Fresh water<br>Acute LC50 5600 ppm Fresh water<br>Chronic NOEC 4.95 mg/l Marine water<br>Chronic NOEC 0.1 ml/L Fresh water | Algae - Ulva pertusa<br>Crustaceans - Gammarus pulex<br>Daphnia - Daphnia magna<br>Fish - Poecilia reticulata<br>Algae - Ulva pertusa<br>Daphnia - Daphnia magna - Neonate | 96 hours<br>48 hours<br>48 hours<br>96 hours<br>96 hours<br>21 days |
| propyl acetate          | Acute LC50 60000 to 64000 µg/l Fresh water   | Fish - Pimephales promelas   | 96 hours  |
| heptane                 | Acute LC50 375000 µg/l Fresh water   | Fish - Oreochromis mossambicus   | 96 hours  |

**Conclusion/Summary** : Not available.

#### Persistence/degradability

**Conclusion/Summary** : Not available.

## 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. 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 Toxic hazardous waste "U" List







## 13. Disposal considerations

| Ingredient                   | CAS #   | Status | Reference number |
|------------------------------|---------|--------|------------------|
| Acetone (I); 2-Propanone (I) | 67-64-1 | Listed | U002             |

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label   | Additional information |
|------------------------|-----------|----------------------|---------|-----|---|------------------------|
| DOT Classification     | 1139      | Coating Solution     | 3       | III |    | -                      |
| TDG Classification     | 1139      | Coating Solution     | 3       | III |    | -                      |
| Mexico Classification  | 1139      | Coating Solution     | 3       | III |    | -                      |
| ADR/RID Class          | 1139      | Coating Solution     | 3       | III |  | -                      |
| IMDG Class             | 1139      | Coating Solution     | 3       | III |  | -                      |
| IATA-DGR Class         | 1139      | Coating Solution     | 3       | III |  | -                      |

PG\* : Packing group

## 15. Regulatory information

### United States

**HCS Classification** : Combustible liquid  
Target organ effects

**U.S. Federal regulations** : **TSCA 8(a) PAIR**: heptane  
**TSCA 8(a) CDR Exempt/Partial exemption**: Not determined  
**TSCA 12(b) one-time export**: heptane  
**United States inventory (TSCA 8b)**: Not determined.

**Clean Air Act Section 112** : Not listed

**(b) Hazardous Air Pollutants (HAPs)**

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

## 15. Regulatory information

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

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

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

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Fire hazard  
 Immediate (acute) health hazard  
 Delayed (chronic) health hazard

#### Composition/information on ingredients

| Name           | %       | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|----------------|---------|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| acetone        | 25 - 50 | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |
| propyl acetate | 25 - 50 | Yes.        | No.                        | No.      | No.                             | Yes.                            |
| heptane        | 10 - 25 | Yes.        | No.                        | No.      | No.                             | Yes.                            |

### State regulations

**Massachusetts** : The following components are listed: ACETONE; N-PROPYL ACETATE; HEPTANE (N-HEPTANE)

**New York** : The following components are listed: Acetone; 2-Propanone

**New Jersey** : The following components are listed: ACETONE; 2-PROPANONE; n-PROPYL ACETATE; ACETIC ACID, PROPYL ESTER; n-HEPTANE; HEPTANE

**Pennsylvania** : The following components are listed: 2-PROPANONE; ACETIC ACID, PROPYL ESTER; HEPTANE

**United States inventory (TSCA 8b)** : Not determined.

### Canada

**WHMIS (Canada)** : Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).  
 Class D-2B: Material causing other toxic effects (Toxic).

### Canadian lists

**Canadian NPRI** : The following components are listed: Volatile organic compounds; Heptane (all isomers)

**CEPA Toxic substances** : The following components are listed: Volatile organic compounds

**Canada inventory** : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### Mexico

**Classification** :



## 15. Regulatory information

### International regulations

|  |  |
|--|--|
| <b>International lists</b>   | : Australia inventory (AICS): Not determined.<br>China inventory (IECSC): Not determined.<br>Japan inventory: Not determined.<br>Korea inventory: Not determined.<br>New Zealand Inventory of Chemicals (NZIoC): Not determined.<br>Philippines inventory (PICCS): Not determined. |
| <b>Chemical Weapons<br/>Convention List Schedule<br/>I Chemicals</b>   | : Not listed   |
| <b>Chemical Weapons<br/>Convention List Schedule<br/>II Chemicals</b>  | : Not listed   |
| <b>Chemical Weapons<br/>Convention List Schedule<br/>III Chemicals</b> | : Not listed   |

## 16. Other information

**Label requirements** : FLAMMABLE LIQUID AND VAPOR. COMBUSTIBLE. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

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

|                  |   |
|------------------|---|
| Health           | 0 |
| Flammability     | 0 |
| 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 are not required on MSDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection  
Association (U.S.A.)** :



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

|                               |                           |
|-------------------------------|---------------------------|
| <b>Date of printing</b>       | : 2/22/2013.              |
| <b>Date of issue</b>          | : 2/22/2013.              |
| <b>Date of previous issue</b> | : No previous validation. |

## 16. Other information

**Version** : 1

**Prepared by** : Not available.

☐ Indicates information that has changed from previously issued version.

### Notice to reader

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