

# SAFETY DATA SHEET



CircuitWorks® Conformal Coating Remover Pen (UFI)

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name** : CircuitWorks® Conformal Coating Remover Pen (UFI)  
**UFI** : MJC8-W0CK-F005-GRPQ  
**Product code** : CW3500  
**Product description** : Processing aid Fluxing agents Remover.  
**Product type** : Liquid.  
**Other means of identification** : Fluxing agents Remover.  
Industrial/Professional use  
UFI: MJC8-W0CK-F005-GRPQ

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

| Identified uses                                                                                            |                             |
|------------------------------------------------------------------------------------------------------------|-----------------------------|
| Processing aid Fluxing agents Remover. Product Application and Material uses Reference Website: or QR code |                             |
| Uses advised against                                                                                       | Reason                      |
| Other                                                                                                      | Industrial/Professional use |

### 1.3 Details of the supplier of the safety data sheet

Manufacturer  
Chemtronics  
8125 Cobb Center Drive  
Kennesaw, GA 30152

Tel. 770-424-4888 or toll free 800-645-5244

Distributor

Importer  
ITW Contamination Control BV  
Saffierlaan 5  
VZ-2132 Hoofddorp  
The Netherlands

Email: [info@itw-cc.com](mailto:info@itw-cc.com)

Tel: +31 88 1307 400  
FAX: +31 88 1307 499  
Website: [www.Chemtronicseu.com](http://www.Chemtronicseu.com)

**e-mail address of person responsible for this SDS** : Only Representative  
Bay 150  
Shannon Industrial Estate  
Shannon  
County Clare  
Ireland  
V14 DF82  
+353 61 771 500  
[customerservice.shannon@itwpp.com](mailto:customerservice.shannon@itwpp.com)

### National contact

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

ITW Contamination Control BV  
Saffierlaan 5  
VZ-2132 Hoofddorp  
The Netherlands

Email: [info@itw-cc.com](mailto:info@itw-cc.com)

Tel: +31 88 1307 400  
FAX: +31 88 1307 499  
Website: [www.Chemtronicseu.com](http://www.Chemtronicseu.com)

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number** : EMERGENCY HEALTH INFORMATION:  
Austria 01 406 43 43, Belgium +070 245 245, Bulgaria +359 2 9154 233, Croatia +3851 2348 342, Cyprus 1401, Czech Republic +420224 919 293, Denmark +45 8212 1212, Estonia 16662, Finland 0800 147 111, France +33 (0) 1 45 42 59 59, Germany Bonn Poison Center +49-228 192 40, Greece (0300) 2107793777, Hungary +36-80-201-199, Iceland 543-4071, Ireland Emergency medical information: (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9DOV2NHO, Ireland Members of the Public Number (8 am to 10 pm) "+353-(0) 1 809 2166" Healthcare professional telephone Number (24 hrs) "353 (0) 1 809 ", Italy CAV "Ospedale Pediatrico Bambino Gesù" - Rome Tel. (+39) 06.6859.3726, CAV "Azienda Ospedaliera Università di Foggia" - Foggia Tel. 800.183.459, CAV "Azienda Ospedaliera A. Cardarelli" - Naples Tel. (+39) 081.545.3333, CAV Policlinico "Umberto I" - Rome Tel. (+39) 06.4997.8000, CAV Policlinico "A. Gemelli" - Rome Tel. (+39) 06.305.4343, CAV Azienda Ospedaliera "Careggi" U.O. Tossicologia Medica - Florence Tel. (+39) 055.794.7819, CAV National Centre for Toxicological Information - Pavia Tel. (+39) 0382.24.444, CAV Niguarda Hospital - Milan Tel. (+39) 02.66.1010.29, CAV Azienda Ospedaliera Papa Giovanni XXIII - Bergamo Tel. 800.88.33.00, CAV Veneto Poison Control Centre - Verona Tel. 800.011.858, Latvia +371 67042473, Lithuania +370 (85)2362052, Luxembourg +352 8002 5500, Netherland +31 88 75 585 61, Norway +47 22 59 13 00, Poland +48 42 2530 400, Portugal +351 800 250 250, Romania +40 21 599 2300, Slovakia +421 2 5477 4166, Slovenia 112, Spain +34 91 562 04 20, Sweden 112 United Kingdom (England or Wales) 0845 46 47 or Scotland 08454 24 24 24 (UK only)

#### Supplier

**Telephone number** : Chemtronics Product Information: 800-TECH-401 (800-832-4401)  
Chemtronics Customer Service: 800-645-5244

**Hours of operation** : 8:00 AM to 5:00 PM

**Information limitations** : EMERGENCY HEALTH INFORMATION:  
EMERGENCY SPILL INFORMATION:  
Transport information

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226  
Acute Tox. 4, H332  
Eye Irrit. 2, H319  
Skin Sens. 1, H317  
Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

## SECTION 2: Hazards identification

**Ingredients of unknown toxicity** : 65 percent of the mixture consists of component(s) of unknown acute oral toxicity  
80 percent of the mixture consists of component(s) of unknown acute dermal toxicity  
22 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

**Ingredients of unknown ecotoxicity** : Contains 4% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms**



**Signal word** : Warning

**Hazard statements** : Flammable liquid and vapour.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Harmful if inhaled.  
Very toxic to aquatic life with long lasting effects.

### Precautionary statements

**Prevention** : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour.

**Response** : Collect spillage. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. 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** : Not applicable.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements** : FOR INDUSTRIAL USE ONLY  
For professional use only.  
UFI: MJC8-W0CK-F005-GRPQ

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers                                           | %         | Classification                                                                                                                                                                                                             | Specific Conc. Limits, M-factors and ATEs            | Type    |
|-------------------------|-------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------|
| hexamethyldisiloxane    | EC: 203-492-7<br>CAS: 107-46-0                        | ≥50 - ≤75 | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>Eye Irrit. 2, H319<br>Aquatic Chronic 4, H413                                                                                                                                  | ATE [Inhalation (gases)] = 15956 ppm                 | [1]     |
| acetone                 | EC: 200-662-2<br>CAS: 67-64-1<br>Index: 606-001-00-8  | ≥10 - ≤15 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>Aquatic Chronic 1, H410<br>EUH066                                                                                                                           | M [Chronic] = 10                                     | [1] [2] |
| 1-methoxy-2-propanol    | EC: 203-539-1<br>CAS: 107-98-2<br>Index: 603-064-00-3 | ≤4.2      | Flam. Liq. 3, H226<br>Eye Irrit. 2, H319<br>STOT SE 3, H336                                                                                                                                                                | -                                                    | [1] [2] |
| benzyl alcohol          | EC: 202-859-9<br>CAS: 100-51-6<br>Index: 603-057-00-5 | ≤5        | Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | ATE [Oral] = 1200 mg/kg<br>ATE [Dermal] = 2000 mg/kg | [1]     |

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

## SECTION 4: First aid measures

### 4.1 Description of 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 it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 adverse health effects persist or are severe. If necessary, call a poison center or physician. 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.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## SECTION 4: First aid measures

- Ingestion** : Wash out mouth with water. Remove dentures if any. 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 medical attention if adverse health effects persist or are severe. 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.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
dizziness/vertigo  
drowsiness/fatigue  
headache
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness
- Ingestion** : Adverse symptoms may include the following:  
Ingestion Seek medical attention.

### 4.3 Indication of any immediate medical attention and special treatment needed

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

## SECTION 5: Firefighting measures

### 5.1 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.

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Flammable liquid and vapour. 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. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides

## SECTION 5: Firefighting measures

### 5.3 Advice for firefighters

- 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised 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".

### 6.2 Environmental precautions

- : Avoid dispersal of spilt 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### 6.3 Methods and material 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. Absorb with an inert 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-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.

### 6.4 Reference to other sections

- : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

## SECTION 7: Handling and storage

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. 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.
- Advice on general occupational hygiene** : 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.

### 7.2 Conditions for safe storage, including any incompatibilities

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 oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### Seveso Directive - Reporting thresholds

##### Danger criteria

| Category  | Notification and MAPP threshold | Safety report threshold    |
|-----------|---------------------------------|----------------------------|
| P5c<br>E1 | 5000 tonnes<br>100 tonnes       | 50000 tonnes<br>200 tonnes |

### 7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | Exposure limit values                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| acetone                 | <b>EU OEL (Europe, 1/2022)</b><br>TWA 8 hours: 500 ppm.<br>TWA 8 hours: 1210 mg/m <sup>3</sup> .                                                                                                |
| 1-methoxy-2-propanol    | <b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.<br>TWA 8 hours: 100 ppm.<br>TWA 8 hours: 375 mg/m <sup>3</sup> .<br>STEL 15 minutes: 150 ppm.<br>STEL 15 minutes: 568 mg/m <sup>3</sup> . |

#### Biological exposure indices

No exposure indices known.

SECTION 8: Exposure controls/personal protection

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

| Product/ingredient name | Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| hexamethyldisiloxane    | <p><b>DNEL - General population - Long term - Oral</b><br/>0.27 mg/kg bw/day<br/><u>Effects</u>: Systemic</p> <p><b>DNEL - General population - Long term - Inhalation</b><br/>13.3 mg/m³<br/><u>Effects</u>: Systemic</p> <p><b>DNEL - Workers - Long term - Inhalation</b><br/>53.4 mg/m³<br/><u>Effects</u>: Systemic</p> <p><b>DNEL - General population - Long term - Dermal</b><br/>167 mg/kg bw/day<br/><u>Effects</u>: Systemic</p> <p><b>DNEL - Workers - Long term - Dermal</b><br/>333 mg/kg bw/day<br/><u>Effects</u>: Systemic</p>                                                                                             |
| acetone                 | <p><b>DNEL - General population - Long term - Oral</b><br/>62 mg/kg bw/day<br/><u>Effects</u>: Systemic</p> <p><b>DNEL - General population - Long term - Dermal</b><br/>62 mg/kg bw/day<br/><u>Effects</u>: Systemic</p> <p><b>DNEL - Workers - Long term - Dermal</b><br/>186 mg/kg bw/day<br/><u>Effects</u>: Systemic</p> <p><b>DNEL - General population - Long term - Inhalation</b><br/>200 mg/m³<br/><u>Effects</u>: Systemic</p> <p><b>DNEL - Workers - Long term - Inhalation</b><br/>1210 mg/m³<br/><u>Effects</u>: Systemic</p> <p><b>DNEL - Workers - Short term - Inhalation</b><br/>2420 mg/m³<br/><u>Effects</u>: Local</p> |
| 1-methoxy-2-propanol    | <p><b>DNEL - General population - Long term - Oral</b><br/>33 mg/kg bw/day<br/><u>Effects</u>: Systemic</p> <p><b>DNEL - General population - Long term - Inhalation</b><br/>43.9 mg/m³</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

CircuitWorks® Conformal Coating Remover Pen (UFI)

SECTION 8: Exposure controls/personal protection

|                |                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------|
|                | <u>Effects</u> : Systemic                                                                              |
|                | <b>DNEL - General population - Long term - Dermal</b><br>78 mg/kg bw/day<br><u>Effects</u> : Systemic  |
|                | <b>DNEL - Workers - Long term - Dermal</b><br>183 mg/kg bw/day<br><u>Effects</u> : Systemic            |
|                | <b>DNEL - Workers - Long term - Inhalation</b><br>369 mg/m³<br><u>Effects</u> : Systemic               |
|                | <b>DNEL - Workers - Short term - Inhalation</b><br>553.5 mg/m³<br><u>Effects</u> : Local               |
|                | <b>DNEL - Workers - Short term - Inhalation</b><br>553.5 mg/m³<br><u>Effects</u> : Systemic            |
| benzyl alcohol | <b>DNEL - General population - Long term - Oral</b><br>4 mg/kg bw/day<br><u>Effects</u> : Systemic     |
|                | <b>DNEL - General population - Long term - Dermal</b><br>4 mg/kg bw/day<br><u>Effects</u> : Systemic   |
|                | <b>DNEL - General population - Long term - Inhalation</b><br>5.4 mg/m³<br><u>Effects</u> : Systemic    |
|                | <b>DNEL - Workers - Long term - Dermal</b><br>8 mg/kg bw/day<br><u>Effects</u> : Systemic              |
|                | <b>DNEL - General population - Short term - Oral</b><br>20 mg/kg bw/day<br><u>Effects</u> : Systemic   |
|                | <b>DNEL - General population - Short term - Dermal</b><br>20 mg/kg bw/day<br><u>Effects</u> : Systemic |
|                | <b>DNEL - Workers - Long term - Inhalation</b><br>22 mg/m³<br><u>Effects</u> : Systemic                |
|                | <b>DNEL - General population - Short term - Inhalation</b><br>27 mg/m³<br><u>Effects</u> : Systemic    |
|                | <b>DNEL - Workers - Short term - Dermal</b><br>40 mg/kg bw/day<br><u>Effects</u> : Systemic            |
|                | <b>DNEL - Workers - Short term - Inhalation</b><br>110 mg/m³<br><u>Effects</u> : Systemic              |

## SECTION 8: Exposure controls/personal protection

### PNECs

Not available.

### 8.2 Exposure controls

#### **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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### 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. Contaminated work clothing should not be allowed out of the workplace. 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 cannot be accurately estimated.

##### **Body protection**

: 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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

##### **Other skin protection**

: 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.

##### **Respiratory protection**

: 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.

##### **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.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

##### **Physical state**

: Liquid.

##### **Colour**

: Colourless.

## SECTION 9: Physical and chemical properties

|                                                                 |                                          |
|-----------------------------------------------------------------|------------------------------------------|
| <b>Odour</b>                                                    | : Not available.                         |
| <b>Odour threshold</b>                                          | : Not available.                         |
| <b>Melting point/freezing point</b>                             | : Not available.                         |
| <b>Boiling point or initial boiling point and boiling range</b> | : Not available.                         |
| <b>Flammability</b>                                             | : Not available.                         |
| <b>Lower and upper explosion limit</b>                          | : Not available.                         |
| <b>Flash point</b>                                              | : Closed cup: 39°C (102.2°F) [Tagliabue] |
| <b>Auto-ignition temperature</b>                                | :                                        |

| Ingredient name      | °C  | °F    | Method    |
|----------------------|-----|-------|-----------|
| 1-methoxy-2-propanol | 270 | 518   | DIN 51794 |
| hexamethyldisiloxane | 340 | 644   |           |
| benzyl alcohol       | 436 | 816.8 |           |
| acetone              | 465 | 869   |           |

|                                  |                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Decomposition temperature</b> | : Not available.                                                                                                                 |
| <b>pH</b>                        | : Not available.                                                                                                                 |
| <b>Viscosity</b>                 | : Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C): Not available. |

|                   |   |
|-------------------|---|
| <b>Solubility</b> | : |
| Not available.    |   |

|                            |                  |
|----------------------------|------------------|
| <b>Solubility in water</b> | : Not available. |
|----------------------------|------------------|

|                                                         |                   |
|---------------------------------------------------------|-------------------|
| <b>Partition coefficient n-octanol/ water (log Pow)</b> | : Not applicable. |
|---------------------------------------------------------|-------------------|

|                        |   |
|------------------------|---|
| <b>Vapour pressure</b> | : |
|------------------------|---|

| Ingredient name      | Vapour Pressure at 20°C |        |        | Vapour pressure at 50°C |     |        |
|----------------------|-------------------------|--------|--------|-------------------------|-----|--------|
|                      | mm Hg                   | kPa    | Method | mm Hg                   | kPa | Method |
| acetone              | 180.01463               | 24     |        |                         |     |        |
| hexamethyldisiloxane | 33.38534                | 4.5    |        |                         |     |        |
| 1-methoxy-2-propanol | 8.5                     | 1.1    |        |                         |     |        |
| benzyl alcohol       | 0.05                    | 0.0067 |        |                         |     |        |

|                                 |                   |
|---------------------------------|-------------------|
| <b>Relative density</b>         | : 0.79            |
| <b>Relative vapour density</b>  | : >1 [Air = 1]    |
| <b>Particle characteristics</b> |                   |
| <b>Median particle size</b>     | : Not applicable. |

### 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

|                             |                  |
|-----------------------------|------------------|
| <b>Explosive properties</b> | : Not applicable |
| <b>Oxidising properties</b> | : Not available. |

#### 9.2.2 Other safety characteristics

|                         |                          |
|-------------------------|--------------------------|
| <b>Evaporation rate</b> | : <1 (butyl acetate = 1) |
|-------------------------|--------------------------|

## SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
- 10.5 Incompatible materials** : Reactive or incompatible with the following materials:  
oxidising materials
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Product/ingredient name

hexamethyldisiloxane

##### Result

###### **Rat - Inhalation - LC50 Gas.**

15956 ppm [4 hours]

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Convulsions or effect on seizure threshold  
Behavioral - Ataxia

acetone

###### **Rat - Oral - LD50**

5800 mg/kg

Toxic effects: Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Tremor

1-methoxy-2-propanol

###### **Rabbit - Dermal - LD50**

13 g/kg

###### **Rat - Oral - LD50**

6600 mg/kg

Toxic effects: Brain and Coverings - Other degenerative changes Behavioral - General anesthetic Lung, Thorax, or Respiration - Dyspnea

benzyl alcohol

###### **Rabbit - Dermal - LD50**

2000 mg/kg

###### **Rat - Oral - LD50**

1230 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Excitement Behavioral - Coma

**Conclusion/Summary [Product]** : Not available.

#### Acute toxicity estimates

## SECTION 11: Toxicological information

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| hexamethyldisiloxane    | N/A          | N/A            | 15956                    | N/A                         | N/A                                 |
| acetone                 | 5800         | N/A            | N/A                      | N/A                         | N/A                                 |
| 1-methoxy-2-propanol    | 6600         | 13000          | N/A                      | N/A                         | N/A                                 |
| benzyl alcohol          | 1230         | 2000           | N/A                      | N/A                         | 1.5                                 |

### Skin corrosion/irritation

#### Product/ingredient name

hexamethyldisiloxane

#### Result

##### **Rabbit - Skin - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

acetone

##### **Rabbit - Skin - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

1-methoxy-2-propanol

##### **Rabbit - Skin - Mild irritant**

Amount/concentration applied: 395 mg

benzyl alcohol

##### **Rabbit - Skin - Mild irritant**

Amount/concentration applied: 500 mg

##### **Man - Skin - Mild irritant**

Duration of treatment/exposure: 48 hours

Amount/concentration applied: 16 mg

##### **Pig - Skin - Moderate irritant**

Amount/concentration applied: 100 %

##### **Rabbit - Skin - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

**Conclusion/Summary [Product]** : Not available.

### Serious eye damage/eye irritation

#### Product/ingredient name

hexamethyldisiloxane

#### Result

##### **Rabbit - Eyes - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 uL

acetone

##### **Human - Eyes - Mild irritant**

Amount/concentration applied: 186300 ppm

##### **Rabbit - Eyes - Mild irritant**

Amount/concentration applied: 10 uL

##### **Rabbit - Eyes - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 20 mg

##### **Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 20 mg

1-methoxy-2-propanol

##### **Rabbit - Eyes - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

SECTION 11: Toxicological information

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Result                             |
|-------------------------|------------------------------------|
| acetone                 | STOT SE 3, H336 (Narcotic effects) |
| 1-methoxy-2-propanol    | STOT SE 3, H336 (Narcotic effects) |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

Not available.

Potential acute health effects

- Eye contact : Causes serious eye irritation.
- Inhalation : Harmful if inhaled.
- Skin contact : May cause skin irritation.
- Ingestion : Do not ingest. If swallowed then seek immediate medical assistance.

Symptoms related to the physical, chemical and toxicological characteristics

## SECTION 11: Toxicological information

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
dizziness/vertigo  
drowsiness/fatigue  
headache
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness
- Ingestion** : Adverse symptoms may include the following:  
Ingestion Seek medical attention.

### Delayed and immediate effects as well as 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

Not available.

**Conclusion/Summary [Product]** : Not available.

- General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

#### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product/ingredient name

acetone

#### Result

##### Acute - LC50 - Fresh water

Daphnia - Water flea - *Daphnia magna*  
10 mg/l [48 hours]  
Effect: Mortality

##### Chronic - NOEC - Marine water

Algae - Green algae - *Ulva pertusa*  
4.95 mg/l [96 hours]  
Effect: Reproduction

##### Acute - EC50 - Marine water

Algae - Green algae - *Ulva pertusa*

## SECTION 12: Ecological information

20.565 mg/l [96 hours]

Effect: Reproduction

### Chronic - NOEC - Fresh water

Crustaceans - Daphnia - *Daphniidae*

0.016 ml/l [21 days]

Effect: Population

### Chronic - NOEC - Marine water

Fish - Threespine stickleback - *Gasterosteus aculeatus* - Larvae

Age: 7 days

5 µg/l [42 days]

Effect: Growth

### Acute - LC50 - Fresh water

Fish - Guppy - *Poecilia reticulata*

Age: 4 to 12 months; Size: 2 to 10 cm; Weight: 0.5 to 14 g

5600 ppm [96 hours]

Effect: Mortality

benzyl alcohol

### Acute - LC50 - Fresh water

Fish - Bluegill - *Lepomis macrochirus*

10 ppm [96 hours]

Effect: Mortality

**Conclusion/Summary [Product]** : Not available.

## 12.2 Persistence and degradability

Not available.

**Conclusion/Summary [Product]** : Not available.

## 12.3 Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF                       | Potential |
|-------------------------|--------------------|---------------------------|-----------|
| hexamethyldisiloxane    | 5.3                | 1290 to 2410 [OECD 305 C] | High      |
| acetone                 | -0.23              | -                         | Low       |
| 1-methoxy-2-propanol    | <1                 | -                         | Low       |
| benzyl alcohol          | 0.87               | -                         | Low       |

## 12.4 Mobility in soil

### Soil/water partition coefficient

| Product/ingredient name | logK <sub>oc</sub> | K <sub>oc</sub> |
|-------------------------|--------------------|-----------------|
| hexamethyldisiloxane    | 2.7                | 509.447         |
| acetone                 | 0.56               | 3.6548          |
| 1-methoxy-2-propanol    | 1                  | 10.447          |
| benzyl alcohol          | 1.1                | 12.6442         |

### Results of PMT and vPvM assessment

| Product/ingredient name | PMT | P   | M   | T   | vPvM | vP  | vM  |
|-------------------------|-----|-----|-----|-----|------|-----|-----|
| hexamethyldisiloxane    | No  | N/A | Yes | No  | No   | N/A | No  |
| acetone                 | N/A | N/A | Yes | Yes | N/A  | N/A | Yes |
| 1-methoxy-2-propanol    | No  | N/A | Yes | No  | N/A  | N/A | Yes |
| benzyl alcohol          | No  | N/A | Yes | No  | N/A  | N/A | Yes |

**Mobility** : Not available.

**Conclusion/Summary** : The product does not meet the criteria to be considered as a PMT or vPvM.

SECTION 12: Ecological information

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

| Product/ingredient name | PBT | P   | B   | T   | vPvB | vP  | vB  |
|-------------------------|-----|-----|-----|-----|------|-----|-----|
| hexamethyldisiloxane    | No  | N/A | No  | No  | No   | N/A | No  |
| acetone                 | N/A | N/A | N/A | Yes | N/A  | N/A | N/A |
| 1-methoxy-2-propanol    | No  | N/A | N/A | No  | N/A  | N/A | N/A |
| benzyl alcohol          | No  | N/A | N/A | No  | N/A  | N/A | N/A |

Regulation (EC) No. 1272/2008 [CLP]

| Product/ingredient name | PBT | P   | B   | T   | vPvB | vP  | vB  |
|-------------------------|-----|-----|-----|-----|------|-----|-----|
| hexamethyldisiloxane    | No  | N/A | No  | No  | No   | N/A | No  |
| acetone                 | N/A | N/A | N/A | Yes | N/A  | N/A | N/A |
| 1-methoxy-2-propanol    | No  | N/A | N/A | No  | N/A  | N/A | N/A |
| benzyl alcohol          | No  | N/A | N/A | No  | N/A  | N/A | N/A |

**Conclusion/Summary** : The product does not meet the criteria to be considered as a PBT or vPvB.  
**Regulation (EC) No. 1272/2008 [CLP]**

12.6 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

**Methods of disposal** : The generation of waste should be avoided or minimised 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 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.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|                                 | ADR/RID                                                                                                                                                                  | ADN                                                                                                                                                                      | IMDG                                                                                                                                                                        | IATA                                                                                     |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 14.1 UN number or ID number     | UN1263                                                                                                                                                                   | UN1263                                                                                                                                                                   | UN1263                                                                                                                                                                      | UN1263                                                                                   |
| 14.2 UN proper shipping name    | PAINT                                                                                                                                                                    | PAINT                                                                                                                                                                    | PAINT                                                                                                                                                                       | PAINT                                                                                    |
| 14.3 Transport hazard class(es) | 3<br>  | 3<br>  | 3<br>  | 3<br> |
| 14.4 Packing group              | -                                                                                                                                                                        | -                                                                                                                                                                        | -                                                                                                                                                                           | -                                                                                        |
| 14.5 Environmental hazards      | Yes.                                                                                                                                                                     | Yes.                                                                                                                                                                     | Yes.                                                                                                                                                                        | Yes. The environmentally hazardous substance mark is not required.                       |

### Additional information

|         |                                                                                                            |
|---------|------------------------------------------------------------------------------------------------------------|
| ADR/RID | : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. |
| ADN     | : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. |
| IMDG    | : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.                    |
| IATA    | : The environmentally hazardous substance mark may appear if required by other transportation regulations. |

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

**14.7 Maritime transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

##### Annex XIV

None of the components are listed above the relevant limit.

##### Substances of very high concern

None of the components are listed above the relevant limit.

##### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Product/ingredient name                           | %   | Designation [Usage] |
|---------------------------------------------------|-----|---------------------|
| CircuitWorks® Conformal Coating Remover Pen (UFI) | ≥90 | 3                   |

**Labelling** : Not applicable.

### Other EU regulations

SECTION 15: Regulatory information

- Industrial emissions (integrated pollution prevention and control) - Air : Listed
- Industrial emissions (integrated pollution prevention and control) - Water : Not listed
- Explosive precursors : This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

| Category  |
|-----------|
| P5c<br>E1 |

National regulations

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

- Australia : All components are listed or exempted.
- Canada : All components are listed or exempted.
- China : All components are listed or exempted.
- Eurasian Economic Union : Russian Federation inventory: All components are listed or exempted.
- Japan : Japan inventory (CSCL): All components are listed or exempted.  
Japan inventory (ISHL): Not determined.
- New Zealand : All components are listed or exempted.
- Philippines : All components are listed or exempted.
- Republic of Korea : All components are listed or exempted.
- Taiwan : All components are listed or exempted.
- Thailand : All components are listed or exempted.

SECTION 15: Regulatory information

|                                 |                                                                                              |
|---------------------------------|----------------------------------------------------------------------------------------------|
| Turkey                          | : All components are listed or exempted.                                                     |
| United States                   | : All components are active or exempted.                                                     |
| Viet Nam                        | : All components are listed or exempted.                                                     |
| 15.2 Chemical safety assessment | : This product contains substances for which Chemical Safety Assessments are still required. |

SECTION 16: Other information

|                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indicates information that has changed from previously issued version. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Abbreviations and acronyms                                             | : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway<br>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road<br>ATE = Acute Toxicity Estimate<br>B = Bioaccumulative<br>BCF = Bioconcentration Factor<br>CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]<br>DMEL = Derived Minimal Effect Level<br>DNEL = Derived No Effect Level<br>EUH statement = CLP-specific Hazard statement<br>IATA = International Air Transport Association<br>IMDG = International Maritime Dangerous Goods<br>IMO = International Maritime Organization<br>M = Mobile<br>N/A = Not available<br>P = Persistent<br>PBT = Persistent, Bioaccumulative and Toxic<br>PMT = Persistent, Mobile and Toxic<br>PNEC = Predicted No Effect Concentration<br>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail<br>RRN = REACH Registration Number<br>SGG = Segregation Group<br>T = Toxic<br>vB = Very Bioaccumulative<br>vM = Very Mobile<br>vP = Very Persistent<br>vPvB = Very Persistent and Very Bioaccumulative<br>vPvM = Very Persistent and Very Mobile |

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification                                                                                                  | Justification                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Flam. Liq. 3, H226<br>Acute Tox. 4, H332<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 1, H410 | On basis of test data<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method |

Full text of abbreviated H statements

|      |                                                       |
|------|-------------------------------------------------------|
| H225 | Highly flammable liquid and vapour.                   |
| H226 | Flammable liquid and vapour.                          |
| H302 | Harmful if swallowed.                                 |
| H312 | Harmful in contact with skin.                         |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H319 | Causes serious eye irritation.                        |
| H332 | Harmful if inhaled.                                   |
| H336 | May cause drowsiness or dizziness.                    |
| H410 | Very toxic to aquatic life with long lasting effects. |

CircuitWorks® Conformal Coating Remover Pen (UFI)

SECTION 16: Other information

|        |                                                         |
|--------|---------------------------------------------------------|
| H411   | Toxic to aquatic life with long lasting effects.        |
| H413   | May cause long lasting harmful effects to aquatic life. |
| EUH066 | Repeated exposure may cause skin dryness or cracking.   |

Full text of classifications [CLP/GHS]

|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| Acute Tox. 4      | ACUTE TOXICITY - Category 4                                   |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1               |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2               |
| Aquatic Chronic 4 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4               |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2                |
| Flam. Liq. 2      | FLAMMABLE LIQUIDS - Category 2                                |
| Flam. Liq. 3      | FLAMMABLE LIQUIDS - Category 3                                |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2                        |
| Skin Sens. 1      | SKIN SENSITISATION - Category 1                               |
| Skin Sens. 1B     | SKIN SENSITISATION - Category 1B                              |
| STOT SE 3         | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

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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.