

# SAFETY DATA SHEET

## FOR INDUSTRIAL USE ONLY

### Casco-Resin CR-5H

#### Section 1. Product and company identification

**GHS product identifier** : Casco-Resin CR-5H  
**MSDS Number** : 000000000387  
**Product type** : Urea Formaldehyde Resin  
**Material uses** : Wood Adhesives, Composites, Laminates or Related Board Products

**Manufacturer/Supplier/Importer** : HEXION CANADA INC  
 12621 156th St., N.W.  
 T5V 1E1, Alberta, Edmonton  
 Canada

**Contact person** : 4information@hexion.com

**Telephone** : For additional health and safety or regulatory information, call  
 1 888 443 9466.

**Emergency telephone number** : For Emergency Medical Assistance  
 Call Health & Safety Information Services  
 1-866-303-6949

For Emergency Transportation Information  
 CHEMTREC US Domestic (800) 424-9300  
 CHEMTREC International (703) 527-3887  
 CANUTEC CA Domestic (613) 996-6666

Part of the CASCO® Brand of Adhesives and Resins from Hexion Inc.

#### Section 2. Hazards identification

**Classification of the substance or mixture** : ACUTE TOXICITY:inhalation - Category 4  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B  
 RESPIRATORY SENSITIZATION - Category 1  
 SKIN SENSITIZATION - Category 1  
 CARCINOGENICITY - Category 1B  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) [respiratory tract, skin] - Category 2

#### GHS label elements

#### Hazard pictograms



#### Signal word

: Danger

#### Hazard statements

: H332 Harmful if inhaled.  
 : H320 Causes eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H317 May cause an allergic skin reaction.  
 H350 May cause cancer.  
 H373 May cause damage to organs through prolonged or repeated exposure. (respiratory tract, skin)

### Precautionary statements

- General** : Not applicable.
- Prevention** : Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Wear protective gloves.  
 Wear eye or face protection.  
 Wear protective clothing.  
 Wear respiratory protection.  
 Use only outdoors or in a well-ventilated area.  
 Do not breathe vapor.  
 Wash hands thoroughly after handling.  
 Contaminated work clothing must not be allowed out of the workplace.
- Response** : Get medical attention if you feel unwell.  
 IF exposed or concerned:  
 Get medical attention.  
**IF INHALED:**  
 If breathing is difficult, remove person to fresh air and keep comfortable for breathing.  
 Call a POISON CENTER or physician if you feel unwell.  
 If experiencing respiratory symptoms:  
 Call a POISON CENTER or physician.  
**IF ON SKIN:**  
 Wash with plenty of soap and water.  
 Wash contaminated clothing before reuse.  
 If skin irritation or rash occurs:  
 Get medical attention.  
**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 attention.
- Storage** : Store locked up.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Other hazards which do not result in classification** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

| Ingredient name | % by weight | CAS number |
|-----------------|-------------|------------|
| Formaldehyde    | 1 - 2       | 50-00-0    |

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.

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

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If 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 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.
- 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.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under

- medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first aid personnel** : 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.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
metal oxide/oxides
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If 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".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and material for containment and 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. 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 of SDS). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see section 8 of SDS). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. 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.

## Section 8. Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

| Ingredient name | Exposure limits  |
|-----------------|--|
| Formaldehyde    | <p><b>ACGIH TLV (2000-03-01)</b><br/> <b>CEIL</b> 0.37 mg/m<sup>3</sup> 0.3 ppm<br/>                     Notes: Inhalation sensitizer Skin sensitizer<br/> <b>OSHA PEL 1989 (1989-03-01)</b><br/> <b>TWA</b> 0.75 ppm<br/> <b>STEL</b> 2 ppm<br/> <b>OSHA PEL Z2 (1993-06-30)</b><br/> <b>TWA</b> 0.75 ppm<br/> <b>STEL</b> 2 ppm<br/> <b>OSHA PEL (1993-06-30)</b><br/> <b>TWA</b> 0.75 ppm<br/> <b>STEL</b> 2 ppm<br/> <b>NIOSH REL (1994-06-01)</b><br/> <b>TWA - TLV and PEL</b> 0.016 ppm<br/> <b>CEIL</b> 0.1 ppm<br/> <b>NIOSH REL (1994-06-01) Calculated as formaldehyde</b><br/> <b>TWA - TLV and PEL</b> 0.016 ppm<br/> <b>CEIL</b> 0.1 ppm</p> |

- 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. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- 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.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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.
- 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** : 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.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid
- Color** : Opaque, white
- Odor** : slight formaldehyde
- Odor threshold** : Not available
- pH** : 7.4 - 7.9 @ 21 °C (70 °F)
- Melting point/ Freezing point** : Not determined
- Boiling point** : 102 °C (216 °F)
- Flash point** : Not determined
- Burning time** : Not available
- Burning rate** : Not available
- Evaporation rate** : 0.3 ((n-Butyl acetate=1))
- Flammability (solid, gas)** : Not available
- Lower and upper explosive (flammable) limits** : **Lower:** Not applicable.  
**Upper:** Not applicable.
- Vapor pressure** : 22 mm Hg @ 25 °C (77 °F)
- Vapor density** : Not available
- Relative density** : 1.2700 - 1.2900 @ 21 °C (70 °F)

- Solubility** : Not available
- Solubility in water** : Soluble
  
- Partition coefficient: n-octanol/water** : Not available
- Auto-ignition temperature** : Not applicable.
  
- Decomposition temperature** : Not available
- SADT** : Not available
- Viscosity** : **Dynamic:** 400 - 640 cPs (Brookfield)
  
- Kinematic:** Not available

**Other information**

*The SDS is not to be used as a specification sheet. For Specific technical information on the product listed above, a sales specification sheet should be obtained from your Hexion representative.*

**Section 10. Stability and reactivity**

- Reactivity** : Hazardous polymerization may occur under certain conditions of storage or use.
  
- Chemical stability** : The product is stable.
  
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
  
- Conditions to avoid** : Strong oxidizer,
  
- Incompatible materials** : Reactive or incompatible with the following materials:  
oxidizing materials  
acids
  
- Hazardous decomposition products** : Decomposition products may include the following materials:, carbon monoxide, carbon dioxide, aldehydes (including formaldehyde), hydrogen cyanide, particulate matter, other organic compounds

**Section 11. Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

| Product/ingredient name | Result          | Species | Dose          | Exposure |
|-------------------------|-----------------|---------|---------------|----------|
| Formaldehyde            |                 |         |               |          |
|                         | LD50 Oral       | Rat     | 800 mg/kg     | -        |
|                         | LC50 Inhalation | Rat     | 0.578 mg/l    | 2 h      |
| Casco-Resin CR-5H       |                 |         |               |          |
|                         | LD50 Oral       | Rat     | > 2,001 mg/kg | -        |
|                         | LC50 Inhalation | Rat     |               | 1 h      |
|                         | LD50 Dermal     | Rabbit  | > 2,001 mg/kg | -        |



**Conclusion/Summary** : Not available

**Irritation/Corrosion**

| Product/ingredient name | Result                  | Species | Score | Exposure | Observation |
|-------------------------|-------------------------|---------|-------|----------|-------------|
| Formaldehyde            | Skin - Erythema/E schar | Rabbit  | 2.5   | 20 hrs   | -           |
|                         | Skin - Edema            | Rabbit  | 3     | 20 hrs   | -           |
|                         | eyes - Cornea opacity   | Mouse   | > 3   |          | -           |

**Conclusion/Summary**

**Skin** : Not available  
**eyes** : Not available  
**Respiratory** : Not available

**Sensitization**

**Conclusion/Summary**

**Skin** : Not available  
**Respiratory** : Not available

**Mutagenicity**

**Conclusion/Summary** : Not available

**Carcinogenicity**

| Product/ingredient name | Result  | Species | Dose | Exposure |
|-------------------------|---|---------|------|----------|
| Formaldehyde            | -----   | -       |      |          |
| <b>Remarks:</b>         | <p>The National Toxicology Program (NTP) classifies formaldehyde as “known to be a human carcinogen” with respect to nasopharyngeal cancer, sinonasal cancer and myeloid leukemia. The International Agency for Research on Cancer (IARC) classifies formaldehyde as “carcinogenic to humans”. U.S. OSHA regulates formaldehyde as a potential human carcinogen. See the OSHA Formaldehyde Workplace Standard at 29 CFR 1920.1048 (the “OSHA Standard”). Safe handling and use instructions are provided in this SDS and in the OSHA Standard. OSHA has identified 0.5 ppm, calculated as an eight-hour time-weighted average (“TWA”) concentration, as the “Action Level”. Please review and understand the guidance contained in this MSDS, and refer to the OSHA Standard for regulatory requirements that might be applicable to your operation and use. Many studies and other evaluations have been performed concerning formaldehyde’s potential to cause cancer. To review some of these studies and for further information go to <a href="http://www.osha.gov/SLTC/formaldehyde">www.osha.gov/SLTC/formaldehyde</a>; <a href="http://monographs.iarc.fr">http://monographs.iarc.fr</a>; <a href="http://ntp-server.niehs.nih.gov">http://ntp-server.niehs.nih.gov</a>; <a href="http://epa.gov/iris/subst/0419.htm">http://epa.gov/iris/subst/0419.htm</a>; <a href="http://www.nap.edu/catalog.php?record_id=13142">http://www.nap.edu/catalog.php?record_id=13142</a> and other authoritative websites.</p> |         |      |          |

**Conclusion/Summary** : Not available

**Reproductive toxicity**

**Conclusion/Summary** : Not available

**Teratogenicity**

**Conclusion/Summary** : Not available

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

| Product/ingredient name | Category   | Route of exposure | Target organs                |
|-------------------------|------------|-------------------|------------------------------|
| Formaldehyde            | Category 3 |                   | Respiratory tract irritation |

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

| Product/ingredient name | Category   | Route of exposure | Target organs             |
|-------------------------|------------|-------------------|---------------------------|
| Formaldehyde            | Category 2 |                   | respiratory tract<br>skin |

**Aspiration hazard**

Not available

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

**Potential acute health effects**

- Eye contact** : Causes eye irritation.
- Inhalation** : Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

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

- Eye contact** : Adverse symptoms may include the following:  
irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
wheezing and breathing difficulties  
asthma
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

**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**

**Conclusion/Summary** : Not available

**General** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

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

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

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

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

**Numerical measures of toxicity**

**Acute toxicity estimates**

| Route               | ATE value  |
|---------------------|------------|
| Inhalation (vapors) | 32.17 mg/l |

**Section 12. Ecological information**

**Toxicity**

| Product/ingredient name | Result   | Species                           | Exposure |
|-------------------------|--|-----------------------------------|----------|
| formaldehyde            |  |                                   |          |
|                         | Acute LC50 6.7 mg/l -                                  | Fish - Striped bass               | 96 h     |
|                         | Acute LC50 6.9 mg/l -                                  | Fish - Zebra danio                | 6 d      |
|                         | Acute No-observable-effect-concentration > 47.9 mg/l - | Fish - Medaka, high-eyes          | 28 d     |
|                         | Acute EC50 5.8 mg/l Fresh water                        | Aquatic invertebrates. Water flea | 2 d      |
|                         | Acute EC50 4.9 mg/l Fresh water                        | Aquatic plants - Algae            | 72 h     |
|                         | Acute EC50 4.3 mg/l Fresh water                        | Aquatic plants - Algae            | 48 h     |
|                         | Acute EC50 19 mg/l -                                   | Micro-organism - Soil organisms   | 3 h      |

**Conclusion/Summary** : Not available

**Persistence/degradability**

| Product/ingredient name | Test  | Result | Dose | Inoculum |
|-------------------------|---|--------|------|----------|
|                         |   | -      |      |          |
| <b>Remarks:</b>         | Biodegradation is expected to be very slow. |        |      |          |

**Conclusion/Summary** : Not available

**Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| Formaldehyde            | 0.35   | < 1 | low       |

**Mobility in soil**

- Soil/water partition coefficient (KOC) : Not available
- Other adverse effects : No known significant effects or critical hazards.

**Section 13. Disposal considerations**

- Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Section 14. Transport information**

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

**International transport regulations**

| Regulatory information | UN/NA number | Proper shipping name   | Classes/*PG | Reportable Quantity (RQ) |
|------------------------|--------------|--|-------------|--------------------------|
| CFR                    | 3082         | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Formaldehyde) | Class 9 III | Formaldehyde             |
| TDG                    |              | Non-regulated  |             |                          |
| IMO/IMDG               |              | Non-regulated  |             |                          |
| IATA (Cargo)           |              | Non-regulated  |             |                          |

\*PG : Packing group

- 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.

**Section 15. Regulatory information**

**United States**

**U.S. Federal regulations** : **United States - TSCA 12(b) - Chemical export notification:** None required.  
**United States - TSCA 5(a)2 - Final significant new use rules:** Not listed  
**United States - TSCA 5(a)2 - Proposed significant new use rules:** Not listed  
**United States - TSCA 5(e) - Substances consent order:** Not listed  
**SARA 311/312 Classification** - Immediate (acute) health hazard, Delayed (chronic) health hazard

**SARA 313**

|  |   | <b>Product name</b> | <b>CAS number</b> |
|--|---|---------------------|-------------------|
| <b>Form R - Reporting requirements</b> | : | Formaldehyde        | 50-00-0           |
| <b>Supplier notification</b>           | : | Formaldehyde        | 50-00-0           |

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

**California Prop. 65:** : **WARNING:** This product contains a chemical known to the State of California to cause cancer., **WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

| <b>Ingredient name</b> | <b>Cancer</b> | <b>Reproductive</b> | <b>No significant risk level</b> | <b>Maximum acceptable dosage level</b> |
|------------------------|---------------|---------------------|----------------------------------|--|
| Formaldehyde           | Yes.          | No.                 | 40 µg/day                        | No.                                    |
| Methanol               | No.           | Yes.                | No.                              | No.                                    |

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

**International regulations**

**International lists** : **Australia inventory (AICS):** All components are listed or exempted.  
**Canada inventory:** All components are listed or exempted.  
**Japan inventory:** Not determined.  
**China inventory (IECSC):** All components are listed or exempted.  
**Korea inventory:** All components are listed or exempted.  
**New Zealand Inventory (NZIoC):** All components are listed or exempted.  
**Philippines inventory (PICCS):** All components are listed or exempted.  
**United States inventory (TSCA 8b):** All components are listed or exempted.  
**Taiwan inventory (CSNN):** All components are listed or exempted.

**Section 16. Other information**

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

|                         |   |   |
|-------------------------|---|---|
| <b>Health</b>           | * | 2 |
| <b>Flammability</b>     |   | 1 |
| <b>Physical hazards</b> |   | 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.**

**Full text of abbreviated H statements :** Not applicable.

**History**

- Date of printing** : 06/26/2018
- Date of issue/Date of revision** : 12/20/2016
- Date of previous issue** : 07/15/2015
- Version** : 4.1
- Prepared by** : Product Safety Stewardship
- Key to abbreviations** :
  - ATE = Acute Toxicity Estimate
  - BCF = Bioconcentration Factor
  - GHS = Globally Harmonized System of Classification and Labelling of Chemicals
  - IATA = International Air Transport Association
  - IBC = Intermediate Bulk Container
  - IMDG = International Maritime Dangerous Goods
  - LogPow = logarithm of the octanol/water partition coefficient
  - MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
  - RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
  - UN = United Nations
- References** : Not available

**Notice to reader**

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