



# Safety Data Sheet

## 275 VOC PRECAT LACQUER GLOSS WHITE






### 1. Identification

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| <b>Product identifier</b>                                      | 275 VOC PRECAT LACQUER GLOSS WHITE   |   |  |
| <b>Product code</b>  | PCW275-1090  |   |  |
| <b>Other means of identification</b>                           | None.  |   |  |
| <b>Recommended use of the chemical and restrictions on use</b> | A protective and/or decorative finish or accompanying paint product. Not recommended for: Any other use not detailed on product data sheet or label.   |   |  |
| <b>Manufacturer</b>  | GEMINI INDUSTRIES, INC.<br>2300 Holloway Drive<br>El Reno, OK 73036<br>USA<br><br>Tel. 1-800-262-5710<br>Fax 1-405-262-9310<br><a href="http://www.geminicoatings.com">www.geminicoatings.com</a>    | . |  |
| <b>Emergency phone number</b>                                  | 24-hour Emergency (Spill, Leak, Exposure or accident)<br>INFOTRAC 800-535-5053<br>Outside USA, Call Collect 1-352-323-3500 (French & English)<br><br>HAZMAT Response and MSDS Help: EMI 800-510-8510 |   |  |

### 2. Hazard identification

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|----------------|--|
| <b>Summary</b> | FLAMABLE LIQUID! Keep away from heat, sparks and open flame. Avoid contact with skin, eyes and clothing. Do not breathe vapours, mists or aerosols. Do not ingest. If ingested consult physician immediately and show this Safety Data Sheet. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. |
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#### WHMIS 2015/OSHA HCS 2012/GHS

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|    | <p>Flammable liquids (Category 2)<br/>                 Skin irritation (Category 2)<br/>                 Serious eye damage/eye irritation (Category 2A)<br/>                 Skin sensitizer (Category 1B)<br/>                 Carcinogenicity (Category 2)<br/>                 Reproductive toxicity (Category 2)<br/>                 Specific target organ toxicity, single exposure (Category 3)</p> <p><b>Other hazards which do not result in classification :</b><br/>                 Acute hazard to the aquatic environment (Category 2).<br/>                 Long-term hazard to the aquatic environment (Category 2)</p> |
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**DANGER**

- H225: Highly Flammable liquid and vapour
- H319: Causes serious eye irritation
- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness  
H351: Suspected of causing cancer  
H361: Suspected of damaging fertility or the unborn child  
H411: Toxic to aquatic life with long lasting effects  
P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P210: Keep away from heat, sparks, open flames and other ignition sources. No smoking.  
P240: Ground or bond container and receiving equipment.  
P241: Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.  
P242: Use only non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P261: Avoid breathing mist, vapours and spray.  
P264: Wash skin thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P280: Wear protective gloves, protective clothing and eye protection.  
P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water and soap or take a shower if necessary.  
P333+313: If skin irritation or a rash occurs: Get medical advice/attention.  
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312: Call a POISON CENTER or doctor/physician if you feel unwell.  
P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P337+313: If eye irritation persists: Get medical advice or attention.  
P308+313: IF exposed or concerned: Get medical advice/attention.  
P321: Specific treatment (see section 4 of SDS).  
P362+364: Take off contaminated clothing and wash before reuse.  
P370+378: In case of fire: Use the National Fire Protection Association Class B extinguisher for extinction.  
P391: Collect spillage.  
P403+P235+P233: Store in a well-ventilated place. Keep container tightly closed. Keep cool.  
P405: Store locked up.  
P501: Dispose of contents and container to an approved waste disposal plant.

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

| <b>Common name</b>                         | <b>CAS</b> | <b>Weight % content</b> |
|--|------------|-------------------------|
| Acetone                                    | 67-64-1    | 49 - 51 %               |
| Titanium dioxide                           | 13463-67-7 | 11 - 13 %               |
| 1-Chloro-4-(trifluoromethyl)benzene        | 98-56-6    | 8 - 10 %                |
| Nitrocellulose                             | 9004-70-0  | 4 - 6 %                 |
| Urea, polymer with formaldehyde, butylated | 68002-19-7 | 2 - 4 %                 |
| Methyl n-amyl ketone                       | 110-43-0   | 2 - 4 %                 |
| Isopropyl alcohol                          | 67-63-0    | 1.5 - 2.5 %             |
| Bis(2-Ethylhexyl) adipate                  | 103-23-1   | 1.5 - 2.5 %             |
| n-Butyl Alcohol                            | 71-36-3    | 1.5 - 2.5 %             |
| Amorphous silica                           | 7631-86-9  | 0.5 - 1.5 %             |
| Xylene                                     | 1330-20-7  | 0.1 - 0.5 %             |

## 4. First-aid measures

|                               |   |
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| <b>Inhalation</b>             | Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen by trained personnel. If a problem develops or persists, seek medical attention.  |
| <b>Skin contact</b>           | Wash skin with warm water and mild soap for at least 15 minutes. Remove contaminated clothing and wash before reuse. Avoid touching eyes with contaminated body parts. If a problem develops or persists, seek medical attention.   |
| <b>Eye contact</b>            | IMMEDIATELY! Flush with water for at least 15 minutes. Remove contact lenses. Hold eyelids apart to rinse properly. If a problem develops or persists, seek medical attention.  |
| <b>Ingestion</b>              | DO NOT induce vomiting, unless recommended by medical personnel. Never give anything by mouth if victim is unconscious or convulsing. If victim is conscious wash out mouth with water and give 2-4 glasses of water to drink. If spontaneous vomiting occurs, keep head below hip level to prevent aspiration into the lungs. Seek medical attention or contact a Poison Centre immediately. |
| <b>Other</b>                  | No information available.   |
| <b>Symptoms</b>               | May cause severe irritation to eyes. May cause redness, dryness or rash of the skin. May cause an allergic reaction of the skin. Inhalation of vapours may cause central nervous system depression such as drowsiness, headache, dizziness, vertigo, nausea and fatigue.  |
| <b>Notes to the physician</b> | Treat symptomatically. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.   |

## 5. Fire-fighting measures

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| <b>Suitable extinguishing media</b>                 | Class B extinguishers. Dry chemicals, alcohol resistant foam, carbon dioxide (CO <sub>2</sub> ). Do not use direct water jet.  |
| <b>Specific hazards arising from the chemical</b>   | Very flammable liquid and vapours. Vapours are heavier than air and may travel to an ignition source distant from the material handling point. May be ignited by heat, sparks, flame or static electricity. Do not apply to hot surfaces. Contact with strong oxidizers may cause fire. In a fire or if heated, a pressure increase will occur and the container may burst. Emits toxic fumes under fire conditions. |
| <b>Special protective equipment</b>                 | Firefighters must wear self contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.   |
| <b>Special protective actions for fire-fighters</b> | Use water spray to cool fire-exposed containers. Water spray can reduce the intensity of the flames. However, the water jets can spread the fire. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.  |

## 6. Accidental release measures

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| <b>Personal precautions, protective equipment and emergency procedures</b> | Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.   |
| <b>Environmental precautions</b>   | Prevent entry in sewer and other enclosed area. For a large spill, consult the Department of Environment or the relevant authorities.   |
| <b>Methods and materials for containment and cleaning up</b>               | Remove sources of ignition. Ventilate the area well. Stop leak, if it's possible to do so without risk. Absorb with inert material (soil, sand, vermiculite) and place in an appropriate waste disposal clearly identified. Use non-sparking and antistatic tools. Dispose via a licensed waste disposal contractor. Finish cleaning the contaminated surface by rinsing with soapy water. PS: Rags and others materials soaked with paint or solvent may spontaneously catch fire if improperly store or discarded. Immediately after each use place rags and paper towels in a sealed water-filled metal container to prevent spontaneous combustion. |

## 7. Handling and storage

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | Keep away from heat, sparks and open flame. Turn off all pilot lights, flames, stoves, heaters, electric motors, welding equipment and other sources of ignition. Use non-sparking and antistatic tools. Ground/bond all containers when transferring large quantities (5 gallons US or 20 L and more). Use only in well ventilated area. Avoid prolonged or repeated breathing of vapour or mists. Avoid contact with skin, eyes and clothing. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. Keep containers tightly closed when not in use. Containers of this material may be hazardous even when empty. Since empty containers retain product residues (vapour, liquid), all hazard precautions given in this sheet must be observed. Do not eat, do not drink and do not smoke during use. Wash hands, forearms and face thoroughly after handling this compound and before eating, drinking or using toiletries. Remove contaminated clothing and wash before reuse. Rags, steel wool and paper towels soaked with this product may overheat and spontaneously ignite if piled in a heap. After use immediately store them in water-filled metal can with tight fitting lid. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Storage and handling should follow the NFPA 30 Flammable and/or Combustible Liquids Code and the National Fire Code of Canada (NFCC). Store tightly closed and in properly labelled container in a dry, cool and well ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store away from oxidizing materials and incompatible materials (see section 10).   |
| <b>Storage temperature</b>  | 10 to 25°C (50 to 77°F)   |

## 8. Exposure controls/personal protection

|  |  |  |  |                                      |
|--|--|--|--|--------------------------------------|
| <b>Immediately Dangerous to Life or Health</b> | Acetone: 2500 ppm.<br>Titanium dioxide: 5000 mg/m <sup>3</sup> .<br>Methyl n-amyl ketone: 800 ppm.<br>Isopropyl alcohol: 2000 ppm.<br>n-Butyl Alcohol: 1400 ppm.<br>Amorphous silica: 3000 mg/m <sup>3</sup> . |  |  |                                      |
| Acetone  | STEL   |  | 500 ppm<br>750 ppm<br>1000 ppm                                     | ACGIH , BC<br>ON<br>RSST             |
|  | TWA (8h)   |  | 250 ppm<br>500 ppm<br>500 ppm                                      | ACGIH , BC<br>ON<br>RSST             |
| Titanium dioxide                               | TWA (8h)   | Total Dust                                       | 1190 mg/m <sup>3</sup><br>10 mg/m <sup>3</sup>                     | ACGIH , BC, ON, RSST                 |
| 1-Chloro-4-(trifluoromethyl)benzene            | TWA (8h)   |  | 25 ppm   | Other                                |
| Methyl n-amyl ketone                           | TWA (8h)   |  | 25 ppm<br>50 ppm<br>50 ppm   | ON<br>ACGIH , BC<br>RSST             |
| Isopropyl alcohol                              | STEL   |  | 400 ppm<br>500 ppm   | ACGIH , BC, ON<br>RSST               |
|  | TWA (8h)   |  | 200 ppm<br>400 ppm   | ACGIH , BC, ON<br>RSST               |
| n-Butyl Alcohol                                | Ceiling  |  | 30 ppm   | BC                                   |
|  | TWA (8h)   |  | 50 ppm<br>15 ppm<br>20 ppm   | RSST (Pc, RP)<br>BC<br>ACGIH , ON    |
| Amorphous silica                               | TWA (8h)   | Respirable Dust<br>Respirable Dust<br>Total Dust | 3 mg/m <sup>3</sup><br>6 mg/m <sup>3</sup><br>10 mg/m <sup>3</sup> | ACGIH , BC<br>RSST<br>ACGIH , BC, ON |
| Xylene   | STEL   |  | 150 ppm<br>150 ppm   | ACGIH , BC, ON<br>RSST               |
|  | TWA (8h)   |  | 100 ppm  | ACGIH , BC, ON                       |

100 ppm 434 mg/m<sup>3</sup> RSST

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| <b>Appropriate engineering controls</b> | Provide sufficient mechanical ventilation (general and/or local exhaust) to keep the airborne concentrations of vapours, mists, aerosols or dust below their respective occupational exposure limits.  |
| <b>Individual protection measures</b>   |  |
| <b>Eye</b>                              | Wear chemical splash goggles.  |
| <b>Hands</b>                            | Wear Neoprene gloves. Before using, user should confirm impermeability. Discard gloves with tears, pinholes, or signs of wear. Gloves must only be worn on clean hands. Wash gloves with water before removing them. After using gloves, hands should be washed and dried thoroughly.  |
| <b>Skin</b>                             | Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code. Wear an apron or long-sleeve protective coverall suit.  |
| <b>Respiratory</b>                      | Respiratory protection is not required for normal use. Respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations and CSA Standard Z 94.4 and approved by NIOSH / MSHA. In case of insufficient ventilation or in confined or enclosed space and for an assigned protection factor (APF) up to 10 times the exposure limit, wear a half mask respirator with organic vapour cartridges fitted with P100 filters. For an APF until maximum 100 times of exposure limit, wear a full face respirator mask with organic vapour cartridges and P100 filters. |
| <b>Feet</b>                             | Wear rubber boots to clean up a spill.   |

## 9. Physical and chemical properties

|                         |                             |  |                         |
|-------------------------|-----------------------------|--|-------------------------|
| <b>Physical state</b>   | Liquid                      | <b>Flammability</b>                          | Flammable               |
| <b>Colour</b>           | White                       | <b>Flammability limits</b>                   | N/Av.                   |
| <b>Odour</b>            | Solvent                     | <b>Flash point</b>                           | 0°C (32°F)              |
| <b>Odour threshold</b>  | N/Av.                       | <b>Auto-ignition temperature</b>             | N/Av.                   |
| <b>pH</b>               | N/Av.                       | <b>Sensibility to electrostatic charges</b>  | Yes                     |
| <b>Melting point</b>    | N/Av.                       | <b>Sensibility to sparks and/or friction</b> | No                      |
| <b>Freezing point</b>   | N/Av.                       | <b>Vapour density</b>                        | >1 (Air = 1)            |
| <b>Boiling point</b>    | 56°C (132.8°F)              | <b>Relative density</b>                      | 1.0104 kg/L (Water = 1) |
| <b>Solubility</b>       | Partially soluble in water. | <b>Partition coefficient n-octanol/water</b> | N/Av.                   |
| <b>Evaporation rate</b> | > Butyl Acetate             | <b>Decomposition temperature</b>             | N/Av.                   |
| <b>Vapour pressure</b>  | N/Av.                       | <b>Viscosity</b>                             | N/Av.                   |
| <b>Percent Volatile</b> | 67.15%                      | <b>Molecular mass</b>                        | N/Av.                   |

N/Av.: Not Available N/Av.: Not Applicable Und.: Undetermined N/E: Not Established

## 10. Stability and reactivity

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| <b>Reactivity</b>   | No information available.   |
| <b>Chemical stability</b>   | Stable under recommended storage conditions.  |
| <b>Possibility of hazardous reactions (including polymerizations)</b> | A dangerous reaction will not occur.  |
| <b>Conditions to avoid</b>  | Avoid heat, flame and sparks. Avoid electro-static discharge. Avoid contact with incompatible materials.                            |
| <b>Incompatible materials</b>   | Strong bases, mineral acids, strong oxidizing agents (such as nitric acid, perchloric acid, peroxides, chlorates and perchlorates). |
| <b>Hazardous decomposition products</b>                               | Under normal conditions of storage and use, hazardous decomposition products should not be produced.                                |

## 11. Toxicological information

|                                       |                                     |                                    |               |        |      |
|---------------------------------------|-------------------------------------|------------------------------------|---------------|--------|------|
| <b>Numerical measures of toxicity</b> | Acetone                             | Ingestion                          | 5800 mg/kg    | Rat    | LD50 |
|                                       |                                     | Inhalation                         | 71.4 mg/l/4h  | Rat    | LC50 |
|                                       |                                     | Skin                               | 15800 mg/kg   | Rabbit | LD50 |
|                                       | Titanium dioxide                    | Ingestion                          | >10000 mg/kg  | Rat    | LD50 |
|                                       |                                     | Inhalation                         | >6.82 mg/l/4h | Rat    | LC50 |
|                                       |                                     | Skin                               | >10000 mg/kg  | Rabbit | LD50 |
|                                       | 1-Chloro-4-(trifluoromethyl)benzene | Ingestion                          | 5546 mg/kg    | Rat    | LD50 |
|                                       |                                     | Inhalation                         | 20 mg/l/4h    | Mouse  | LC50 |
|                                       |                                     |                                    | 22 mg/l/4h    | Rat    | LC50 |
|                                       |                                     | Skin                               | >2000 mg/kg   | Rabbit | LD50 |
|                                       | Nitrocellulose                      | Ingestion                          | >5000 mg/kg   | Rat    | LD50 |
|                                       | Methyl n-amyl ketone                | Ingestion                          | 1670 mg/kg    | Rat    | LD50 |
|                                       |                                     | Inhalation                         | <18.7 mg/l/4h | Rat    | LC50 |
|                                       |                                     |                                    | >9.34 mg/l/4h | Rat    | LC50 |
|                                       | Bis(2-Ethylhexyl) adipate           | Skin                               | 10220 mg/kg   | Rabbit | LD50 |
|                                       |                                     | Ingestion                          | 9100 mg/kg    | Rat    | LD50 |
|                                       |                                     | Inhalation                         | >5.7 mg/l/4h  | Rat    | LC50 |
|                                       | n-Butyl Alcohol                     | Skin                               | 17297 mg/kg   | Rabbit | LD50 |
|                                       |                                     | Ingestion                          | 2510 mg/kg    | Rat    | LD50 |
|                                       |                                     | Inhalation                         | 24.2 mg/l/4h  | Rat    | LC50 |
| Isopropyl alcohol                     | Skin                                | 3400 mg/kg                         | Rabbit        | LD50   |      |
|                                       | Ingestion                           | 5045 mg/kg                         | Rat           | LD50   |      |
|                                       | Inhalation                          | 66.1 mg/l/4h                       | Rat           | LC50   |      |
| Amorphous silica                      | Skin                                | 6280 mg/kg                         | Rat           | LD50   |      |
|                                       | Ingestion                           | >3300 mg/kg                        | Rat           | LD50   |      |
|                                       | Inhalation                          | >2 mg/l/4h                         | Rat           | LC50   |      |
| Xylene                                | Skin                                | >5000 mg/kg                        | Rabbit        | LD50   |      |
|                                       | Ingestion                           | 3523 mg/kg                         | Rat           | LD50   |      |
|                                       | Inhalation                          | 27.6 mg/l/4h                       | Rat           | LC50   |      |
|                                       | Skin                                | 3200 mg/kg                         | Rabbit        | LD50   |      |
|                                       | <b>Likely routes of exposure</b>    | Skin, eyes, inhalation, ingestion. |               |        |      |


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| <p><b>Delayed, immediate and chronic effects</b></p> | <p><b>Eye contact</b> May cause irritation, redness, tearing and blurred vision. Eye Irritation/Corrosion, Rabbit (OECD TG 405): tests performed with each ingredient of this mixture gave from mild irritating to corrosive results. Butyl Alcohol instilled in rabbit eyes resulted in severe corneal irritation and eye damage (OECD 405). Application in excess of 5% dilution solution gave irritating effect.</p> <p><b>Skin contact</b> May cause redness and slight irritation of the skin. Prolonged and repeated contact may cause dry skin, irritation or dermatitis. Skin Irritation/Corrosion, Rabbit (OECD 404) : tests performed with each ingredient of this mixture gave not irritating to irritating results.</p> <p><b>Inhalation</b> May cause respiratory tract irritation. Excessive inhalation is harmful. Inhalation of vapours may cause central nervous system depression such as drowsiness, headache, dizziness, vertigo, nausea and fatigue. Inhalation of high vapour concentrations or prolonged breathing of lower concentrations may result in damage to the liver, kidneys, lungs and blood forming organs. The severity of symptoms may vary depending on exposure conditions. Repeated and prolonged occupational overexposure to solvents may cause brain and nervous system damage.</p> <p><b>Ingestion</b> Swallowing will causes digestive tract disturbances resulting in nausea, vomiting, cramps and diarrhea. Ingestion of large amounts may cause depression of the central nervous system characterized by headache, dizziness, convulsions and loss of consciousness.</p> <p><b>Respiratory or skin sensitization</b> 1-Chloro-4-(trifluoromethyl)benzene is a skin sensitizer (mouse, OECD TG 429). This product is not a respiratory sensitizer.</p> <p><b>IARC/NTP Classification</b> <b>Common name IARC NTP</b><br/> Titanium dioxide 2B -<br/> Amorphous silica - -<br/> IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic.<br/> NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.</p> <p><b>Carcinogenicity</b> Titanium dioxide in dust form can cause cancer based on animal data. Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint and caulk.</p> <p><b>Mutagenicity</b> Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.</p> <p><b>Reproductive toxicity</b> Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects. Isopropyl alcohol does not show specific reproductive or developmental toxicity. Any reproductive and developmental effects were only observed secondary to maternal toxicity. However, reproductive toxicity, such as decline in a pregnancy rate, an increase in embryo absorption, and an increase in fetus death, were observed at the dose in which a fall of the increasing weight, and toxicity such as an anesthesia action to parental animals were observed. Xylene overexposure may affect fetal development in laboratory animals by inhalation during pregnancy.</p> <p><b>Specific target organ toxicity - single exposure</b> Central nervous system, respiratory system.</p> <p><b>Specific target organ toxicity - repeated exposure</b> No target organ is listed.</p> |
| <p><b>Interactive effects</b></p>                    | <p>No information available for this product.</p>  |
| <p><b>Other information</b></p>                      | <p>The oral and skin acute toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 mg/kg. The acute toxicity estimate (ATE) by inhalation of the mixture was calculated to be greater than 20 mg/L/4h. These values are not classified according to WHMIS 2015 and OSHA HCS 2012.</p>  |

## 12. Ecological information


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|----------------------------------|--|
| <b>Ecological toxicity</b>       | <p>Fish - Oncorhynchus mykiss - Rainbow trout<br/>LC50 4.74-6.33 mg/L; 96 h (acetone)</p> <p>Aquatic Invertebrate - Daphnia magna<br/>EC50 12600-12700 mg/L; 48 h (acetone)</p> <p>Fish - Fathead minnow, Pimephales promelas - fresh water<br/>LC50 9640 mg/L; 96 h (Isopropyl alcohol)</p> <p>Aquatic Invertebrate - Crustaceans, Daphnia Magna<br/>EC50 3644 mg/L; 48 hr (Isopropyl alcohol)</p> <p>Plant - Lettuce seed germination, Lactuca Sativa<br/>EC50 2100 mg/L; 72 hr (Isopropyl alcohol)</p> <p>Algae, Pseudokirchneriella subcapitata<br/>EC50 579 mg/L; 96h (Nitrocellulose)</p> <p>Fish - Danio rerio<br/>LC50 3 mg/L; 96h (CAS no 98-56-6) OECD 203</p> <p>Aquatic Invertebrate - Daphnia magna (semi-static)<br/>EC50 2 mg/L; 48h (CAS no 98-56-6)</p> <p>Fish - Pimephales promelas [flow-through]<br/>LC50 126-137 mg/L; 96 h (Methyl n-amyl ketone)</p> <p>Fish - Pimephales promelas [static]<br/>LC50 1376 mg/L; 96 h (n-Butyl alcohol)</p> <p>Aquatic Invertebrate - Daphnia magna<br/>EC50 1983 mg/L; 48 h (n-Butyl alcohol)</p> <p>Algae - Desmodesmus subspicatus<br/>EC50 &gt;500 mg/L; 72 h (n-Butyl alcohol)</p> <p>Fish - Lepomis macrochirus [static]<br/>LC50 0.48-0.85 mg/L; 96 h (CAS no 103-23-1)</p> <p>Aquatic Invertebrate - Daphnia magna<br/>EC50 &gt;1.6 mg/L; 48 h (CAS no 103-23-1)</p> <p>Algae - Desmodesmus subspicatus<br/>EC50 &gt;500 mg/L; 72 h (CAS no 103-23-1)</p> <p>Fish - Branchydanio Renio - fresh water<br/>LC50 5000 mg/L; 96 h (silica, amorphous)</p> <p>Aquatic Invertebrate - Ceriodaphnia dubia (static)<br/>EC50 7600 mg/L; 48 h (silica, amorphous)</p> <p>Algae - Pseudokirchneriella subcapitata<br/>EC50 440 mg/L; 72 h (silica, amorphous)</p> |
| <b>Persistence</b>               | <p>Contains an or many ingredients that may be persistent in aquatic environment.</p>  |
| <b>Degradability</b>             | <p>Acetone undergoes slow photolysis in air (half-life time <math>T_{1/2} = 80</math> h) and in water (<math>T_{1/2} &gt;43</math> h). 1-Chloro-4-(trifluoromethyl)benzene is not degraded by photolysis in water. It has also showed to be not ready biodegradable, 19.2% during 28 days (OECD TG 301D). Degradation of Nitrocellulose involves complex dissociation into a wide variety of products. Since it is not soluble in water, the biodegradation by a sludge-soil mixture will be done over a long period of time (TOXNET). Isopropyl alcohol is biodegradable, 49% in 5 days and 70% in 20 days (TOXNET). It does not undergo photolysis. Its atmospheric degradation (OH radical attack) in air has a half-time <math>T_{1/2}</math> of 18 to 25 hours. Bis(2-Ethylhexyl) adipate is readily biodegradable &gt;90% in 28 days (OECD Guideline 301F). n-Butyl Alcohol is readily biodegradable. Degradation by Biochemical Oxygen Demand BOD (O<sub>2</sub> consumption) was reported as 92% after 20 days. The term biodegradability, as such, is not applicable to inorganic compounds like Titanium dioxide.</p>  |
| <b>Bioaccumulative potential</b> | <p>Acetone has a Bioconcentration Factor (BCF) of 0.65 and a partition factor Log Kow of -0.24, indicating no bioaccumulation. According to an estimated Bioconcentration Factors (BCF) of 110 in fish and an estimated partition coefficient log Kow of 3.6 suggest that 1-Chloro-4-(trifluoromethyl)benzene has a potential for bioaccumulation in aquatic organisms is high (TOXNET). The Log Kow value &lt;0.4 and bioconcentration factor (BCF) value &lt;1 for isopropyl alcohol show no potential to bioaccumulate (IUCLID). Bis(2-Ethylhexyl) adipate has a Bioconcentration Factor (BCF) of 27, indicating no bioaccumulation. n-Butyl alcohol has a Bioconcentration Factor (BCF) value of 3, and its Log Kow value is from 0.8 to 1, indicating its potential to bioaccumulate is very low.</p>   |
| <b>Mobility in soil</b>          | <p>Acetone evaporates very rapidly from dry soil surfaces. It is very soluble in water and it is expected to have very high mobility in soil with no adsorption to sediment. The Koc value of 1600 suggest that 1-Chloro-4-(trifluoromethyl)benzene is expected to have low mobility in soil (TOXNET). Isopropyl alcohol is soluble in water and will quickly evaporate into the air. There is no partition in the ground. Bis(2-Ethylhexyl) adipate has an estimated Koc value of 49000 which suggests that it is expected to be immobile in soil. n-Butyl alcohol is soluble in water. The estimated Koc value of 3.2 suggests that it is expected to have very high mobility in soil.</p>   |
| <b>Other adverse effects</b>     | <p>This chemical does not deplete the ozone layer.</p>   |



## 13. Disposal considerations

|  |  |
|--|--|
| <br><b>Container</b> | <p>Important! Prevent waste generation. Use in full. DO NOT dispose of residue in sewers, streams or drinking water supply. Paint residues, including lacquers, stains, shellac, varnish, solvents and paint thinners, can be reprocessed (recycle) anywhere there is a recovery program. Dispose via a licensed waste disposal contractor. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.</p> |
|--|--|

## 14. Transport information

|   |  |
|---|--|
| <b>UN Number</b>  | UN 1263  |
| <b>UN Proper Shipping Name</b>  | PAINT  |
| <b>Environmental hazards</b>  | This material does not contain marine pollutant.   |
| <b>Special precautions for user</b>   | Permit required for transportation with proper placards displayed on vehicle.                |
| <b>TDG - Transportation of Dangerous Goods (Canada)</b>   |  |
| <b>Transport hazard class(es)</b>   | <br>Class 3 |
| <b>Packing group</b>  | II   |
| <b>IMO/IMDG - International Maritime Transport</b>  |  |
| <b>Classification</b>   | UN 1263. PAINT. Class 3, PG II. Emergency schedules (EmS-No) F-E, S-E                        |
| <b>IATA - International Air Transport Association</b>   |  |
| <b>Classification</b>   | UN 1263. PAINT. Class 3, PG II.  |
| <p>These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. In addition, if a domestic exemption exists, it is the responsibility of the shipper to define the application of it.</p> |  |

## 15. Regulatory information

### CANADA

| Common name                                | CAS        | CEPA | DSL | NDSL | NPRI |
|--|------------|------|-----|------|------|
| Acetone                                    | 67-64-1    |      | X   |      |      |
| Titanium dioxide                           | 13463-67-7 |      | X   |      |      |
| 1-Chloro-4-(trifluoromethyl)benzene        | 98-56-6    |      | X   |      |      |
| Nitrocellulose                             | 9004-70-0  |      | X   |      |      |
| Urea, polymer with formaldehyde, butylated | 68002-19-7 |      | X   |      |      |
| Methyl n-amyl ketone                       | 110-43-0   |      | X   |      |      |
| Isopropyl alcohol                          | 67-63-0    | X    | X   |      | X    |
| Bis(2-Ethylhexyl) adipate                  | 103-23-1   |      | X   |      | X    |
| n-Butyl Alcohol                            | 71-36-3    | X    | X   |      | X    |
| Amorphous silica                           | 7631-86-9  |      | X   |      |      |
| Xylene                                     | 1330-20-7  | X    | X   |      | X    |

- CEPA: List of Toxic Substances Managed Under Canadian Environmental Protection Act
- DSL: Domestic Substances List Inventory
- NDSL: Non-Domestic Substances List Inventory
- NPRI: National Pollutant Release Inventory Substances

**UNITED STATE OF AMERICA**

| Common name                                | CAS        | TSCA | CERCLA | EPCRA 313 | EPCRA 302/304 | CAA 112(b) HON | CAA 112(b) HAP | CAA 112(r) | CWA 311 | CWA Priority |
|--|------------|------|--------|-----------|---------------|----------------|----------------|------------|---------|--------------|
| Acetone                                    | 67-64-1    | X    | X      |           |               | X              |                |            |         |              |
| Titanium dioxide                           | 13463-67-7 | X    |        |           |               |                |                |            |         |              |
| 1-Chloro-4-(trifluoromethyl)benzene        | 98-56-6    | X    |        |           |               |                |                |            |         |              |
| Nitrocellulose                             | 9004-70-0  | X    |        |           |               |                |                |            |         |              |
| Urea, polymer with formaldehyde, butylated | 68002-19-7 | X    |        |           |               |                |                |            |         |              |
| Methyl n-amyl ketone                       | 110-43-0   | X    |        |           |               |                |                |            |         |              |
| Isopropyl alcohol                          | 67-63-0    | X    |        | X         |               |                |                |            | X       |              |
| Bis(2-Ethylhexyl) adipate                  | 103-23-1   | X    |        |           |               |                |                |            |         |              |
| n-Butyl Alcohol                            | 71-36-3    | X    | X      | X         |               |                |                |            | X       |              |
| Amorphous silica                           | 7631-86-9  | X    |        |           |               |                |                |            |         |              |
| Xylene                                     | 1330-20-7  | X    | X      | X         |               | X              | X              |            | X       |              |

- TSCA: Toxic Substance Control Act
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances
- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals
- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances
- CAA 112(b) HON: Clean Air Act - Hazardous Organic National Emission Standard for Hazardous Air Pollutant
- CAA 112(b) HAP: Clean Air Act - Hazardous Air Pollutants lists pollutants
- CAA 112(r): Clean Air Act - Regulated Chemicals for Accidental Release Prevention
- CWA 311: Clean Water Act - List of Hazardous Substances
- CWA Priority: Clean Water Act - Priority Pollutant list

**California Proposition 65**

| Common name      | CAS        | Cancer | Reproductive and Developmental Toxicity |
|------------------|------------|--------|---|
| Titanium dioxide | 13463-67-7 | X      |   |

**Other regulations**

**WHMIS 1988**



B2 D2A D2B

Class B2 : Flammable Liquid

Class D2A : Very toxic material causing other toxic effects

Class D2B : Toxic material causing other toxic effects

**HMIS**



**NFPA**



**16. Other information**

|                   |                                    |
|-------------------|------------------------------------|
| Date (YYYY-MM-DD) | GEMINI INDUSTRIES, INC. 2016-02-18 |
| Version           | 01                                 |

**Other information**

- This SDS and the GHS hazards classification is a French translation of the original English version (SDS) from the manufacturer.

REFERENCES:

- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, <http://hazmap.nlm.nih.gov/index.php>
- TOXNET Databases, Toxicology Data Network, NIH U.S. National Library of Medicine, <http://toxnet.nlm.nih.gov/>
- Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), <http://www.reptox.csst.qc.ca>
- NIOSH Pocket Guide to Chemical Hazards, Centers for Disease Control and Prevention, NIOSH Publications, 2007, <http://www.cdc.gov/niosh/npg/npg.html>
- IPCS INCHEM, Chemical Safety Information from Intergovernmental Organizations, Canadian Centre for Occupational Health and Safety (CCOHS), Copyright International Programme on Chemical Safety (IPCS), <http://www.inchem.org>
- OECD Existing Chemicals Database, Chemicals Screening Information DataSet (SIDS) for High Volume Chemicals, UNEP publications, <http://webnet.oecd.org/HPV/UI/Search.aspx>

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

HMIS: Hazardous Materials Identification System

NFPA: National Fire Protection Association

OSHA: Occupational Safety and Health Administration (USA)

NIOSH: National Institute for Occupational Safety and Health

NTP: National Toxicology Program

RSST: Règlement sur la santé et la sécurité du travail (Québec)

GHS: Globally Harmonized System

IARC: International Agency for Research on Cancer

IDLH: Immediately Dangerous to Life or Health

STEL: Short Term Exposure Limit (15 min)

TWA: Time Weighted Averages

WHMIS: Workplace Hazardous Materials Information System

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