



# Safety Data Sheet

## NEXUS CORE CONV LAC GLOSS 1G







### 1. Identification

|  |  |  |  |
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| <b>Product identifier</b>                                      | NEXUS CORE CONV LAC GLOSS 1G   |  |  |
| <b>Product code</b>  | NXC-0790-1   |  |  |
| <b>Other means of identification</b>                           | N.Av.  |  |  |
| <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.gemini-coatings.com/">http://www.gemini-coatings.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

|                |  |
|----------------|--|
| <b>Summary</b> | Highly flammable liquid and vapour. Keep away from heat, sparks and open flame. Avoid contact with skin, eyes and clothing. Do not breathe vapors. Do not ingest. If medical advice is needed, have this SDS or label at hand. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. P.S. The SIMDUT 2015/GHS hazards classification in this SDS is provided by the manufacturer using a Worst Case Scenario. |
|----------------|--|

#### WHMIS 2015/GHS/OSHA HCS 2012

|  |  |
|--|--|
|                     | <p>Flammable liquids (Category 2)<br/>                 Skin corrosion/irritation (Category 2)<br/>                 Serious eye damage/eye irritation (Category 1)<br/>                 Germ cell mutagenicity (Category 1)<br/>                 Carcinogenicity (Category 1)<br/>                 Reproductive toxicity (Category 1)<br/>                 Specific target organ toxicity, single exposure (Category 3)</p> |
| <p><b>DANGER</b><br/>                 H225: Highly flammable liquid and vapour<br/>                 H318: Causes serious eye damage<br/>                 H350: May cause cancer<br/>                 H340: May cause genetic defects<br/>                 H360: May damage fertility or the unborn child<br/>                 H315: Causes skin irritation</p> |  |

H336: May cause drowsiness or dizziness  
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 vapours and spray.  
P264: Wash skin thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves, protective clothing and eye protection.  
P308+313: IF exposed or concerned: Get medical attention.  
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P332+313: If skin irritation occurs: Get medical advice or attention.  
P304+340+P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or 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.  
P310: Immediately call a physician.  
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 to extinguish.  
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 a licensed chemical disposal agency in accordance with local, regional and national regulations.

### 3. Composition/information on ingredients

| Common name   | CAS        | Weight % content |
|---|------------|------------------|
| Butyl acetate (normal)                                  | 123-86-4   | 15 - 40 %        |
| Ethyl alcohol   | 64-17-5    | 10 - 30 %        |
| Nitrocellulose  | 9004-70-0  | 5 - 10 %         |
| Urea, polymer with formaldehyde, isobutylated           | 68002-18-6 | 5 - 10 %         |
| Xylene  | 1330-20-7  | 1 - 5 %          |
| Isopropyl alcohol                                       | 67-63-0    | 1 - 5 %          |
| Isobutyl alcohol  | 78-83-1    | 1 - 5 %          |
| n-Butyl alcohol   | 71-36-3    | 1 - 5 %          |
| Methyl ethyl ketone                                     | 78-93-3    | 1 - 5 %          |
| Propylene glycol monomethyl ether acetate               | 108-65-6   | 1 - 5 %          |
| Solvent naphtha (petroleum), light aromatic (C8 to C10) | 64742-95-6 | 1 - 5 %          |
| Bis(2-Ethylhexyl) adipate                               | 103-23-1   | 1 - 5 %          |
| Ethylbenzene  | 100-41-4   | 0.1 - 1 %        |

**Note:** The manufacturer withholds the actual concentration range of the ingredients as a trade secret.

## 4. First-aid measures

|                               |   |
|-------------------------------|---|
| <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 if easy to do. Hold eyelids apart to rinse properly. Seek medical attention immediately.   |
| <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 1-2 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 eye irritation or eye damage. May cause redness, dryness, rash and skin irritation. Overexposure may cause headache, dizziness and nausea.   |
| <b>Notes to the physician</b> | Treat symptomatically. If gastric 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>                 | Dry chemicals, chemical foam, carbon dioxide (CO <sub>2</sub> ), class B extinguisher. Do not use a heavy water jet.   |
| <b>Specific hazards arising from the chemical</b>   | Highly flammable liquid and vapour. 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. |
| <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. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.   |

## 6. Accidental release measures

|  |   |
|--|---|
| <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 into sewers, closed areas and release to the environment. 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. 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. |

## 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. Use only in well ventilated area. Do not breathe vapors. 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. Keep containers tightly closed when not in 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. |
| <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). Keep away from direct sunlight and heat.  |
| <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> | N-Butyl acetate: 1700 ppm.<br>Ethyl alcohol: 3300 ppm.<br>Xylenes: 900 ppm.<br>Isopropyl alcohol: 2000 ppm.<br>Isobutyl alcohol: 1600 ppm.<br>Methyl ethyl ketone: 3000 ppm.<br>Ethylbenzene: 800 ppm.<br>n-Butyl Alcohol: 1400 ppm. |          |                        |                |
| Butyl acetate (normal)                         | STEL   | 200 ppm  |                        | ACGIH , ON     |
|  |  | 200 ppm  | 950 mg/m <sup>3</sup>  | RSST           |
|  | TWA (8h)   | 20 ppm   |                        | BC             |
|  |  | 150 ppm  |                        | ACGIH , ON     |
|  |  | 150 ppm  | 713 mg/m <sup>3</sup>  | RSST           |
| Ethyl alcohol                                  | STEL   | 1000 ppm |                        | ACGIH , BC, ON |
|  | TWA (8h)   | 1000 ppm | 1880 mg/m <sup>3</sup> | RSST           |
| Isopropyl alcohol                              | STEL   | 400 ppm  |                        | ACGIH , BC, ON |
|  |  | 500 ppm  | 1230 mg/m <sup>3</sup> | RSST           |
|  | TWA (8h)   | 200 ppm  |                        | ACGIH , BC, ON |
|  |  | 400 ppm  | 983 mg/m <sup>3</sup>  | RSST           |
| Xylene   | STEL   | 150 ppm  |                        | ACGIH , BC, ON |
|  |  | 150 ppm  | 651 mg/m <sup>3</sup>  | RSST           |
|  | TWA (8h)   | 100 ppm  |                        | ACGIH , BC, ON |
|  |  | 100 ppm  | 435 mg/m <sup>3</sup>  | RSST           |
| Methyl ethyl ketone                            | STEL   | 100 ppm  |                        | BC             |
|  |  | 100 ppm  | 300 mg/m <sup>3</sup>  | RSST           |
|  |  | 300 ppm  |                        | ACGIH , ON     |
|  | TWA (8h)   | 50 ppm   |                        | BC             |
|  |  | 50 ppm   | 150 mg/m <sup>3</sup>  | RSST           |
|  |  | 200 ppm  |                        | ACGIH , ON     |
| Propylene glycol monomethyl ether acetate      | STEL   | 75 ppm   |                        | BC             |
|  | TWA (8h)   | 50 ppm   |                        | BC , US AIHA   |
|  |  | 50 ppm   | 270 mg/m <sup>3</sup>  | ON             |
| n-Butyl alcohol                                | Ceiling  | 30 ppm   |                        | BC             |
|  |  | 50 ppm   | 152 mg/m <sup>3</sup>  | RSST (Pc, RP)  |
|  | TWA (8h)   | 15 ppm   |                        | BC             |
|  |  | 20 ppm   |                        | ACGIH , ON     |

|   |  |         |                       |                |
|---|--|---------|-----------------------|----------------|
| Isobutyl alcohol                        | TWA (8h)   | 50 ppm  |                       | ACGIH , BC, ON |
|   |  | 50 ppm  | 152 mg/m <sup>3</sup> | RSST           |
| Ethylbenzene                            | STEL   | 125 ppm | 543 mg/m <sup>3</sup> | RSST           |
|   | TWA (8h)   | 20 ppm  |                       | ACGIH , BC, ON |
|   |  | 100 ppm | 434 mg/m <sup>3</sup> | RSST           |
| <b>Appropriate engineering controls</b> | Provide sufficient mechanical ventilation (general 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>                              | In the workplace, wear safety glasses with side shields. If risk of contact with eyes or/and the face wear chemical splash goggles and/or a face shield.   |         |                       |                |
| <b>Hands</b>                            | Wear nitrile or 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.   |         |                       |                |
| <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. If necessary, wear an apron or long-sleeve protective coverall suit.  |         |                       |                |
| <b>Respiratory</b>                      | Respiratory protection is not required for normal use. Where the conditions in the workplace require a respirator, it is necessary to follow a respiratory protection program. Moreover, respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations and standard 29 CFR 1910.134 (OSHA), ANSI Z88.2 or CSA Z 94.11 (Canada) 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>           | Coloured                       | <b>Flammability limits</b>                   | N/Av.                  |
| <b>Odour</b>            | Solvent                        | <b>Flash point</b>                           | -4°C (24.8°F)          |
| <b>Odour threshold</b>  | N/Av.                          | <b>Auto-ignition temperature</b>             | 170°C (338°F)          |
| <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>    | 78 to 214°C (172.4 to 417.2°F) | <b>Relative density</b>                      | 0.936 kg/L (Water = 1) |
| <b>Solubility</b>       | Negligible (<25%) 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> | 69.2557%                       | <b>Molecular mass</b>                        | N/Av.                  |

N/Av.: Not Available

N/Av.: Not Available

Und.: Undetermined

N/E: Not Established

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>   | No reactivity expected.  |
| <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 contact with incompatible materials.   |
| <b>Incompatible materials</b>   | Strong oxidizing agents (e.g. chlorine, fluorine, nitric acid, perchloric acid, peroxides, nitrates, chlorates, chromates, permanganates and perchlorates), strong acids (e.g. hydrochloric acid, sulfuric acid, phosphoric acid), strong bases (e.g. hydroxides, solutions of ammonia, amines, carbonates). |
| <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>                   | Butyl acetate (normal)                        | Ingestion 10768 mg/kg    | Rat    | LD50 |
|   |   | Inhalation >32.5 mg/l/4h | Rat    | LC50 |
|   |   | Skin >17600 mg/kg        | Rabbit | LD50 |
|   | Ethyl alcohol                                 | Ingestion 7060 mg/kg     | Rat    | LD50 |
|   |   | Inhalation 39 mg/l/4h    | Mouse  | LC50 |
|   |   | Skin 20000 mg/kg         | Rabbit | LD50 |
|   | Nitrocellulose                                | Ingestion >5000 mg/kg    | Rat    | LD50 |
|   | Urea, polymer with formaldehyde, isobutylated | Ingestion >5000 mg/kg    | Rat    | LD50 |
|   |   | Skin >5000 mg/kg         | Rabbit | LD50 |
|   | Propylene glycol monomethyl ether acetate     | Ingestion 8532 mg/kg     | Rat    | LD50 |
|   |   | Inhalation 28.7 mg/l/4h  | Rat    | LC50 |
|   |   | Skin >5000 mg/kg         | Rabbit | LD50 |
|   | Bis(2-Ethylhexyl) adipate                     | Ingestion 9100 mg/kg     | Rat    | LD50 |
|   |   | Inhalation >5.7 mg/l/4h  | Rat    | LC50 |
|   |   | Skin 17297 mg/kg         | Rabbit | LD50 |
|   | n-Butyl alcohol                               | Ingestion 790 mg/kg      | Rat    | LD50 |
|   |   | Inhalation 24.2 mg/l/4h  | Rat    | LC50 |
|   |   | Skin 3400 mg/kg          | Rabbit | LD50 |
|   | Isobutyl alcohol                              | Ingestion 2460 mg/kg     | Rat    | LD50 |
|   |   | Inhalation 19.2 mg/l/4h  | Rat    | LC50 |
|   |   | Skin 3400 mg/kg          | Rabbit | LD50 |
|   | Isopropyl alcohol                             | Ingestion 5045 mg/kg     | Rat    | LD50 |
|   |   | 3600 mg/kg               | Mouse  | LD50 |
|   |   | Inhalation 66.1 mg/l/4h  | Rat    | LC50 |
|   |   | Skin 6280 mg/kg          | Rat    | LD50 |
|   | Methyl ethyl ketone                           | Ingestion 2737 mg/kg     | Rat    | LD50 |
|   | Inhalation 32.5 mg/l/4h                       | Rat                      | LC50   |      |
|   | Skin 6480 mg/kg                               | Rabbit                   | LD50   |      |
| Solvent naphtha (petroleum), light aromatic (C8 to C10) | Ingestion 8400 mg/kg                          | Rat                      | LD50   |      |
|   | Inhalation >5.2 mg/l/4h                       | Rat                      | LC50   |      |
|   | Skin >3750 mg/kg                              | Rabbit                   | LD50   |      |
| Xylene  | Ingestion 3523 mg/kg                          | Rat                      | LD50   |      |
|   | Inhalation 27.6 mg/l/4h                       | Rat                      | LC50   |      |
|   | Skin 3200 mg/kg                               | Rabbit                   | LD50   |      |
| Ethylbenzene  | Ingestion 3500 mg/kg                          | Rat                      | LD50   |      |
|   | Inhalation 17.3 mg/l/4h                       | Rat                      | LC50   |      |


|   |  |
|---|--|
|   | Skin      15380 mg/kg      Rabbit LD50   |
| <b>Likely routes of exposure</b>              | Skin, eyes, inhalation.  |
| <b>Delayed, immediate and chronic effects</b> | <p><b>Eye contact</b>      May cause severe eye irritation or eye damage. Eye Irritation/Corrosion, Rabbit (OECD TG 405): tests performed separately with each ingredient of this mixture gave from mild irritating to corrosive results.</p> <p><b>Skin contact</b>      May cause redness, dryness, rash and skin irritation. 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>      Excessive inhalation is harmful. Inhalation of vapours may cause central nervous system depression such as drowsiness, headache, dizziness, vertigo, nausea and fatigue. The severity of symptoms may vary depending on exposure conditions. Prolonged and repeated exposure may cause damage to central nervous system.</p> <p><b>Ingestion</b>      Ingestion can cause abdominal pain, nausea, cramps, headache, dizziness, diarrhea and vomiting.</p> <p><b>Respiratory or skin sensitization</b>      Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.</p> <p><b>IARC/NTP Classification</b>      <b>Common name IARC NTP</b><br/>Ethylbenzene      2B      -<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>      Contains an ingredient possibly carcinogenic to humans (Group 2B, IARC). In the absence of specific test data, the classification of the mixture solvent naphtha (petroleum), light aromatic (C8-C10) (CAS No. 64742-95-6) should be determined based on the levels of benzene (CAS no. 71-43-2). This classification may not apply if it can be shown that the chemical contains less than 0.1 % w/w benzene. Benzene (CAS no 71-43-2) is carcinogenic to humans. The risk of cancer depends on duration and level of exposure. There is sufficient evidence for the carcinogenicity of alcoholic (Ethanol) beverages in humans (IARC). The occurrence of malignant tumors of the oral cavity, pharynx, larynx, oesophagus, liver, breast and colorectal is causally related to the excessive consumption of alcoholic beverages. Ethanol when not consumed in an alcoholic beverage is not classifiable as a human carcinogen.</p> <p><b>Mutagenicity</b>      Contains potential mutagen ingredient. In the absence of specific test data, the classification of the mixture solvent naphtha (petroleum), light aromatic (C8-C10) (CAS No. 64742-95-6) should be determined based on the levels of benzene (CAS no. 71-43-2). This classification may not apply if it can be shown that the chemical contains less than 0.1 % w/w benzene. Benzene (CAS no 71-43-2) is mutagenic in mammals and Humans.</p> <p><b>Reproductive toxicity</b>      Major malformations have been reported in infants born of women who had been working with solvent-based paints (oil-based paints) during pregnancy. Therefore, long-term exposure to solvent-based paints that may occur in occupational life can affect a developing baby (American Journal of Industrial Medicine, 1980). Xylene (CAS no 1330-20-7) overexposure may affect fetal development in laboratory animals by inhalation during pregnancy. Studies in humans and especially in animals are indicative that ingestion of high doses of ethanol (CAS no 64-17-5), as alcoholic beverage, can affect male and female fertility.</p> <p><b>Specific target organ toxicity - single exposure</b>      Central nervous system.</p> <p><b>Specific target organ toxicity - repeated exposure</b>      No target organ is listed.</p> |
| <b>Interactive effects</b>                    | No information available for this product.   |
| <b>Other information</b>                      | The oral and skin acute toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 mg/kg. The acute toxicity estimates (ATE) by inhalation of the mixture were calculated to be greater than 20 mg/L/4h for vapours and to be greater than 5 mg/L/4h for the aerosols and mists. These values are not classified according to WHMIS 2015 and OSHA HCS 2012.   |

## 12. Ecological information


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|--|---|--|--|
| <b>Ecological toxicity</b>                         | Aquatic Invertebrate - Daphnia magna  | EC50                                   | 44 mg/L; 48 h (CAS no 123-86-4)              |
|  | Fish - Pimephales promelas - Fresh water  | LC50                                   | 18 mg/L; 96 h (CAS no 123-86-4) OECD 203     |
|  | Algae - Desmodesmus subspicatus   | EC50                                   | 674.7 mg/L; 72 h (CAS no 123-86-4) OECD 201  |
|  | Fish - Pimephales promelas [flow-through]   | LC50                                   | 13400-15100 mg/L; 96 h (CAS no 64-17-5)      |
|  | Aquatic Invertebrate - Daphnia magna  | EC50                                   | 9268-14221 mg/L; 48 h (CAS no 64-17-5)       |
|  | Algae, Pseudokirchneriella subcapitata  | EC50                                   | 579 mg/L; 96 h (Nitrocellulose)              |
|  | Fish - Oncorhynchus mykiss - Rainbow trout  | LC50                                   | 13.5-17.3 mg/L; 96 h (CAS no 1330-20-7)      |
|  | Aquatic Invertebrate - Daphnia magna  | EC50                                   | 1.3-3.7 mg/L; 48 h (CAS no 1330-20-7)        |
|  | Fish - Fathead minnow, Pimephales promelas - fresh water  | LC50                                   | 9640 mg/L; 96h (CAS no 67-63-0)              |
|  | Aquatic Invertebrate - Crustaceans, Daphnia Magna   | EC50                                   | 3644 mg/L; 48 h (CAS no 67-63-0)             |
|  | Fish - Pimephales promelas - Fresh water  | LC50                                   | 1370-1670 mg/L; 96 h (CAS no 78-83-1)        |
|  | Aquatic Invertebrate - Daphnia magna  | EC50                                   | 1300 mg/L; 48 h (CAS no 78-83-1)             |
|  | Fish - Pimephales promelas [static]   | LC50                                   | 1376 mg/L; 96h (CAS no 71-36-3) OEDC 203     |
|  | Aquatic Invertebrate - Daphnia magna  | EC50                                   | 1983 mg/L; 48h (CAS no 71-36-3) OEDC 202     |
|  | Fish - Fathead minnow, Pimephales promelas - fresh water  | LC50                                   | 3600 mg/L; 96 hr (CAS no 78-93-3)            |
|  | Aquatic Invertebrate - Daphnia magna  | EC50                                   | 5091 mg/L; 48 hr (CAS no 78-93-3)            |
|  | Fish - Oncorhynchus mykiss - Rainbow trout  | LC50                                   | 100-180 mg/L; 96h (CAS no 108-65-6) OECD 203 |
|  | Aquatic Invertebrate - Daphnia magna  | EC50                                   | >500 mg/L; 48 h (CAS no 108-65-6)            |
|  | Fish - Oncorhynchus mykiss - Rainbow trout  | LC50                                   | 9.2 mg/L ; 96h (CAS no 64742-95-6)           |
|  | Aquatic Invertebrate - Daphnia Magna, Water flea, fresh water   | EC50                                   | 6.14 mg/L ; 48h (CAS no 64742-95-6)          |
| Fish - Lepomis macrochirus [static]                | LC50  | 0.48-0.85 mg/L; 96 h (CAS no 103-23-1) |  |
| Aquatic Invertebrate - Daphnia Magna (fresh water) | EC50  | >1.6 mg/L; 48 h (CAS no 103-23-1)      |  |
| <b>Persistence</b>                                 | Contains an or many ingredients that may be persistent in aquatic environment.  |  |  |
| <b>Degradability</b>                               | The product is a mixture of which some ingredients are readily biodegradable (> 60% in 28 days) while other ingredients are not readily biodegradable (<60% in 28 days).  |  |  |
| <b>Bioaccumulative potential</b>                   | The product is a mixture of which some ingredients have a low bioaccumulation potential (Log Kow of <3 and / or BCF <500) while other ingredients have some potential to bioaccumulate (Log Kow of >3 and / or BCF >500).         |  |  |
| <b>Mobility in soil</b>                            | The product is a mixture of which some ingredients evaporate very easily from the surface of the soil. Moreover, some ingredients have very high mobility in soil, while other ingredients have moderate to low mobility in soil. |  |  |
| <b>Other adverse effects</b>                       | This chemical does not deplete the ozone layer.   |  |  |



## 13. Disposal considerations

|  |   |
|--|---|
| <b>Container</b><br> | <p>Important! Prevent waste generation. Use in full. DO NOT dispose residue in sewers, streams or drinking water supply. DO NOT pierce, cut, heat, or burn the container, even after use. Paint residues, including lacquers, dyes, shellacs, varnishes, paint solvents and thinners, can be reprocessed where there is a recovery program. Residues and empty containers must be considered as hazardous waste. 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 DANGER 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 |
|---|------------|------|-----|------|------|
| Butyl acetate (normal)                                  | 123-86-4   | X    | X   |      | X    |
| Ethyl alcohol   | 64-17-5    | X    | X   |      | X    |
| Nitrocellulose  | 9004-70-0  |      | X   |      |      |
| Urea, polymer with formaldehyde, isobutylated           | 68002-18-6 |      | X   |      |      |
| Xylene  | 1330-20-7  | X    | X   |      | X    |
| Isopropyl alcohol                                       | 67-63-0    | X    | X   |      | X    |
| Isobutyl alcohol  | 78-83-1    | X    | X   |      | X    |
| n-Butyl alcohol   | 71-36-3    | X    | X   |      | X    |
| Methyl ethyl ketone                                     | 78-93-3    | X    | X   |      | X    |
| Propylene glycol monomethyl ether acetate               | 108-65-6   | X    | X   |      | X    |
| Solvent naphtha (petroleum), light aromatic (C8 to C10) | 64742-95-6 | X    | X   |      | X    |
| Bis(2-Ethylhexyl) adipate                               | 103-23-1   |      | X   |      | X    |

|              |          |   |   |   |
|--------------|----------|---|---|---|
| Ethylbenzene | 100-41-4 | 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 | CER<br>CLA | EPCRA<br>313 | EPCRA<br>302/304 | CAA<br>112(b)<br>HON | CAA<br>112(b)<br>HAP | CAA<br>112(r) | CWA<br>311 | CWA<br>Prio. |
|---|------------|------|------------|--------------|------------------|----------------------|----------------------|---------------|------------|--------------|
| Butyl acetate (normal)                                  | 123-86-4   | X    | X          |              |                  |                      |                      |               | X          |              |
| Ethyl alcohol   | 64-17-5    | X    |            |              |                  |                      |                      |               |            |              |
| Nitrocellulose  | 9004-70-0  | X    |            |              |                  |                      |                      |               |            |              |
| Urea, polymer with formaldehyde, isobutylated           | 68002-18-6 | X    |            |              |                  |                      |                      |               |            |              |
| Xylene  | 1330-20-7  | X    | X          | X            |                  | X                    | X                    |               | X          |              |
| Isopropyl alcohol                                       | 67-63-0    | X    |            | X            |                  |                      |                      |               |            |              |
| Isobutyl alcohol  | 78-83-1    | X    | X          |              |                  |                      |                      |               |            |              |
| n-Butyl alcohol   | 71-36-3    | X    | X          | X            |                  |                      |                      |               | X          |              |
| Methyl ethyl ketone                                     | 78-93-3    | X    | X          | X            |                  | X                    | X                    |               |            |              |
| Propylene glycol monomethyl ether acetate               | 108-65-6   | X    |            |              |                  |                      |                      |               |            |              |
| Solvent naphtha (petroleum), light aromatic (C8 to C10) | 64742-95-6 | X    |            |              |                  |                      |                      |               |            |              |
| Bis(2-Ethylhexyl) adipate                               | 103-23-1   | X    |            |              |                  |                      |                      |               |            |              |
| Ethylbenzene  | 100-41-4   | X    | 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 |
|---------------|----------|--------|---|
| Ethyl alcohol | 64-17-5  | X      | X                                       |
| Ethylbenzene  | 100-41-4 | X      |   |

|                          |  |  |
|--------------------------|--|--|
| <b>Other regulations</b> |  |  |
|                          | <p><b>HMIS</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Health</li> <li><input checked="" type="checkbox"/> Flammability</li> <li><input checked="" type="checkbox"/> Reactivity</li> <li><input type="checkbox"/> Protective Equipment</li> </ul> | <p><b>NFPA</b></p>  |

## 16. Other information

|                              |   |
|------------------------------|---|
| <b>Date<br/>(YYYY-MM-DD)</b> | GEMINI INDUSTRIES, INC. 2019-09-19  |
| <b>Version</b>               | 01  |
| <b>Other<br/>information</b> | <p>- The GHS hazards classification in this SDS is from the original SDS provided by the manufacturer.</p> <p>REFERENCES:</p> <ul style="list-style-type: none"><li>- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, <a href="http://hazmap.nlm.nih.gov/index.php">http://hazmap.nlm.nih.gov/index.php</a></li><li>- Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), <a href="http://www.reptox.csst.qc.ca">http://www.reptox.csst.qc.ca</a></li><li>- TOXNET Databases, Toxicology Data Network, NIH U.S. National Library of Medicine, <a href="http://toxnet.nlm.nih.gov/">http://toxnet.nlm.nih.gov/</a></li><li>- NIOSH Pocket Guide to Chemical Hazards, Centers for Disease Control and Prevention, NIOSH Publications, 2007, <a href="http://www.cdc.gov/niosh/npg/npg.html">http://www.cdc.gov/niosh/npg/npg.html</a></li><li>- The National Center for Biotechnology Information, National Institutes of Health (NIH), U.S. National Library of Medicine, <a href="http://pubchem.ncbi.nlm.nih.gov/search/">pubchem.ncbi.nlm.nih.gov/search/</a></li></ul> <p>ACGIH: American Conference of Governmental Industrial Hygienists<br/>AIHA: American Industrial Hygiene Association<br/>HMIS: Hazardous Materials Identification System<br/>NFPA: National Fire Protection Association<br/>OSHA: Occupational Safety and Health Administration (USA)<br/>NIOSH: National Institute for Occupational Safety and Health<br/>NTP: National Toxicology Program<br/>RSST: Règlement sur la santé et la sécurité du travail (Québec)<br/>GHS: Globally Harmonized System<br/>IARC: International Agency for Research on Cancer<br/>IDLH: Immediately Dangerous to Life or Health<br/>STEL: Short Term Exposure Limit (15 min)<br/>TWA: Time Weighted Averages<br/>WHMIS: Workplace Hazardous Materials Information System</p> <p>To the best of our knowledge, the information contained herein is accurate. However, neither Priluxventis System nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the 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.</p> |