



# Safety Data Sheet

## 550 VOC HC BLACK SATIN LACQUER



### 1. Identification

|                                                                |                                                                                                                                                                                                      |  |
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| <b>Product identifier</b>                                      | 550 VOC HC BLACK SATIN LACQUER                                                                                                                                                                       |  |
| <b>Product code</b>                                            | 400-0072                                                                                                                                                                                             |  |
| <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

|                |                                                                                                                                                                                                                                                                                                                                                                               |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Summary</b> | FLAMMABLE 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

Flammable liquids (Category 2)  
 Skin corrosion/irritation (Category 2)  
 Serious eye damage/eye irritation (Category 2A)  
 Skin sensitizer (Category 1)  
 Germ cell mutagenicity (Category 1)  
 Carcinogenicity (Category 1)  
 Reproductive toxicity (Category 1)  
 Specific target organ toxicity, single exposure (Category 3)  
 Specific target organ toxicity, repeated exposure (Category 2)  
 Aspiration hazard (Category 1)



**Other hazards which do not result in classification :**  
Acute hazard to the aquatic environment (Category 2).

### DANGER

H225: Highly flammable liquid and vapour

H350: May cause cancer

H340: May cause genetic defects

H360: May damage fertility or the unborn child  
H304: May be fatal if swallowed and enters airways  
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  
H373: May cause damage to organs through prolonged or repeated exposure by inhalation  
H401: Toxic to aquatic life  
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.  
P260: Do not breathe vapours, mist and dust.  
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.  
P301+310+331: IF SWALLOWED: Immediately call a POISON CENTER or a physician. Do NOT induce vomiting.  
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.  
P314: Get Medical advice/attention 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 or on this label).  
P362+364: Take off contaminated clothing and wash before reuse.  
P370+378: In case of fire: Use water fog, chemical foam, carbon dioxide or dry chemical for extinction.  
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**

| <b>Common name</b>                     | <b>CAS</b> | <b>Weight % content</b> |
|----------------------------------------|------------|-------------------------|
| Acetone                                | 67-64-1    | 32 - 34 %               |
| Rosin, maleated, polymer with glycerol | 68038-41-5 | 11 - 13 %               |
| Butyl acetate (normal)                 | 123-86-4   | 8.5 - 9.5 %             |
| Toluene                                | 108-88-3   | 7.5 - 8.5 %             |
| Nitrocellulose                         | 9004-70-0  | 6.5 - 7.5 %             |
| Xylene                                 | 1330-20-7  | 5.5 - 6.5 %             |
| Methyl n-amyl ketone                   | 110-43-0   | 3.5 - 4.5 %             |
| Isopropyl alcohol                      | 67-63-0    | 2.5 - 3.5 %             |
| Bis(2-Ethylhexyl) adipate              | 103-23-1   | 1.5 - 2.5 %             |
| n-Butyl Alcohol                        | 71-36-3    | 1.5 - 2.5 %             |

|                                                         |            |             |
|---------------------------------------------------------|------------|-------------|
| Ethylbenzene                                            | 100-41-4   | 1.5 - 2.5 % |
| 2-Butoxyethanol                                         | 111-76-2   | 1.5 - 2.5 % |
| Carbon black                                            | 1333-86-4  | 0.1 - 1 %   |
| Solvent naphtha (petroleum), light aromatic (C8 to C10) | 64742-95-6 | 0.1 - 1 %   |

#### 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. 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 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 irritation, redness, tearing and blurred vision. May cause redness, dryness, rash and skin irritation. May cause an allergic reaction of the skin. May cause irritation to nose, throat and respiratory tract. Inhalation of vapours may cause central nervous system depression such as drowsiness, headache, dizziness, vertigo, nausea and fatigue. May be harmful if inhaled into the lungs (ingestion/vomiting). Can enter lungs and cause damage. Signs of lung involvement include increased respiratory rate, increased heart rate, and a bluish discolouration of the skin. Coughing, choking and gagging are often noted at the time of aspiration. |
| <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

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                 | Class B extinguishers. Dry chemicals, alcohol resistant foam, carbon dioxide (CO2). Do not use direct 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. 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

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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. 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. 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). 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> | Acetone: 2500 ppm.<br>Methyl n-amyl ketone: 800 ppm.<br>Isopropyl alcohol: 2000 ppm.<br>n-Butyl Alcohol: 1400 ppm.<br>n-Butyl acetate: 1700 ppm.<br>2-Butoxyethanol: 700 ppm.<br>Xylenes: 900 ppm.<br>Ethylbenzene: 800 ppm.<br>Toluene : 500 ppm.<br>Carbon Black: 1750 mg/m <sup>3</sup> . |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                        |          |                                |                                              |                             |
|------------------------|----------|--------------------------------|----------------------------------------------|-----------------------------|
| Acetone                | STEL     | 500 ppm<br>750 ppm<br>1000 ppm | 2380 mg/m <sup>3</sup>                       | ACGIH , BC<br>ON<br>RSST    |
|                        | TWA (8h) | 250 ppm<br>500 ppm<br>500 ppm  | 1190 mg/m <sup>3</sup>                       | ACGIH , BC<br>ON<br>RSST    |
| Butyl acetate (normal) | STEL     | 200 ppm<br>200 ppm             | 950 mg/m <sup>3</sup>                        | ACGIH , ON<br>RSST          |
|                        | TWA (8h) | 20 ppm<br>150 ppm<br>150 ppm   | 713 mg/m <sup>3</sup>                        | BC<br>ACGIH , ON<br>RSST    |
| Toluene                | TWA (8h) | 20 ppm<br>50 ppm               | 188 mg/m <sup>3</sup>                        | ACGIH , BC, ON<br>RSST (Pc) |
| Xylene                 | STEL     | 150 ppm<br>150 ppm             | 651 mg/m <sup>3</sup>                        | ACGIH , BC, ON<br>RSST      |
|                        | TWA (8h) | 100 ppm<br>100 ppm             | 434 mg/m <sup>3</sup>                        | ACGIH , BC, ON<br>RSST      |
| Methyl n-amyl ketone   | TWA (8h) | 25 ppm<br>50 ppm<br>50 ppm     | 115 mg/m <sup>3</sup>                        | ON<br>ACGIH , BC<br>RSST    |
| Isopropyl alcohol      | STEL     | 400 ppm<br>500 ppm             | 233 mg/m <sup>3</sup>                        | ACGIH , BC, ON<br>RSST      |
|                        | TWA (8h) | 200 ppm<br>400 ppm             | 1230 mg/m <sup>3</sup>                       | ACGIH , BC, ON<br>RSST      |
| Ethylbenzene           | STEL     | 125 ppm                        | 543 mg/m <sup>3</sup>                        | RSST                        |
|                        | TWA (8h) | 20 ppm<br>100 ppm              | 434 mg/m <sup>3</sup>                        | ACGIH , BC, ON<br>RSST      |
| 2-Butoxyethanol        | TWA (8h) | 20 ppm<br>20 ppm               | 97 mg/m <sup>3</sup>                         | ACGIH , BC, ON<br>RSST      |
| n-Butyl Alcohol        | Ceiling  | 30 ppm<br>50 ppm               | 152 mg/m <sup>3</sup>                        | BC<br>RSST (Pc, RP)         |
|                        | TWA (8h) | 15 ppm<br>20 ppm               |                                              | BC<br>ACGIH , ON            |
| Carbon black           | TWA (8h) |                                | 3 mg/m <sup>3</sup><br>3.5 mg/m <sup>3</sup> | ACGIH , BC, ON<br>RSST      |

|                                         |                                                                                                                                                                                                       |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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. |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Individual protection measures

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye</b>         | Wear chemical splash goggles. If risk of contact with eyes or the face, wear a face shield.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <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. 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>           | Black                        | <b>Flammability limits</b>                   | N/Av.                  |
| <b>Odour</b>            | Solvent                      | <b>Flash point</b>                           | -18°C (-0.4°F)         |
| <b>Odour threshold</b>  | N/Av.                        | <b>Auto-ignition temperature</b>             | 170°C (338°F)          |
| <b>pH</b>               | N/Ap.                        | <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 to 140°C (132.8 to 284°F) | <b>Relative density</b>                      | 0.916 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> | 69.6%                        | <b>Molecular mass</b>                        | N/Ap.                  |

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

## 10. Stability and reactivity

|                                                                       |                                                                                                                                  |
|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <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 contact with incompatible materials.                                                         |
| <b>Incompatible materials</b>                                         | Strong bases, mineral acids, strong oxidizing agents (e.g. 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      |
|                                       |                                        | Ingestion >5000 mg/kg Rat LD50    |
|                                       | Rosin, maleated, polymer with glycerol | Skin >2000 mg/kg Rabbit LD50      |
|                                       | Butyl acetate (normal)                 | Ingestion 10768 mg/kg Rat LD50    |
|                                       |                                        | Inhalation >32.5 mg/l/4h Rat LC50 |

|                                               |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                               | Toluene                                                 | Skin >17600 mg/kg Rabbit LD50<br>Ingestion 5600 mg/kg Rat LD50<br>Inhalation 30.2 mg/l/4h Rat LC50<br>Skin 12600 mg/kg Rabbit LD50                                                                                                                                                                                                                                                                               |
|                                               | Nitrocellulose                                          | Ingestion >5000 mg/kg Rat LD50                                                                                                                                                                                                                                                                                                                                                                                   |
|                                               | Xylene                                                  | Ingestion 3523 mg/kg Rat LD50<br>Inhalation 27.6 mg/l/4h Rat LC50<br>Skin 3200 mg/kg Rabbit LD50                                                                                                                                                                                                                                                                                                                 |
|                                               | Methyl n-amyl ketone                                    | Ingestion 1670 mg/kg Rat LD50<br>Inhalation <18.7 mg/l/4h Rat LC50<br>>9.34 mg/l/4h Rat LC50                                                                                                                                                                                                                                                                                                                     |
|                                               | Isopropyl alcohol                                       | Skin 10220 mg/kg Rabbit LD50<br>Ingestion 5045 mg/kg Rat LD50<br>Inhalation 66.1 mg/l/4h Rat LC50<br>Skin 6280 mg/kg Rat LD50                                                                                                                                                                                                                                                                                    |
|                                               | Bis(2-Ethylhexyl) adipate                               | Ingestion 9100 mg/kg Rat LD50<br>Inhalation >5.7 mg/l/4h Rat LC50<br>Skin 17297 mg/kg Rabbit LD50                                                                                                                                                                                                                                                                                                                |
|                                               | n-Butyl Alcohol                                         | Ingestion 790 mg/kg Rat LD50<br>Inhalation 24.2 mg/l/4h Rat LC50<br>Skin 3400 mg/kg Rabbit LD50                                                                                                                                                                                                                                                                                                                  |
|                                               | 2-Butoxyethanol                                         | Ingestion 560 mg/kg Rat LD50<br>Inhalation 2.21 mg/l/4h Rat LC50<br>Skin 220 mg/kg Rabbit LD50                                                                                                                                                                                                                                                                                                                   |
|                                               | Ethylbenzene                                            | Ingestion 3500 mg/kg Rat LD50<br>Inhalation 17.3 mg/l/4h Rat LC50<br>Skin 15380 mg/kg Rabbit LD50                                                                                                                                                                                                                                                                                                                |
|                                               | Carbon black                                            | Ingestion >15400 mg/kg Rat LD50<br>Skin >3000 mg/kg Rabbit LD50                                                                                                                                                                                                                                                                                                                                                  |
|                                               | Solvent naphtha (petroleum), light aromatic (C8 to C10) | Ingestion 8400 mg/kg Rat LD50<br>Inhalation >5.2 mg/l/4h Rat LC50<br>Skin >3750 mg/kg Rabbit LD50                                                                                                                                                                                                                                                                                                                |
| <b>Likely routes of exposure</b>              | Skin, eyes, inhalation, ingestion.                      |                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Delayed, immediate and chronic effects</b> | <b>Eye contact</b>                                      | May cause irritation, redness, tearing and blurred vision. 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. Eye Irritation/Corrosion, Rabbit (OECD TG 405): tests performed with the other ingredients of this mixture gave not irritating to irritating results.                   |
|                                               | <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.                                                                                                                                                                                                             |
|                                               | <b>Inhalation</b>                                       | Excessive inhalation is harmful. May cause respiratory tract irritation. 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. Repeated and prolonged occupational overexposure to solvents may cause brain and nervous system damage.                     |
|                                               | <b>Ingestion</b>                                        | Swallowing will causes digestive tract disturbances resulting in nausea, vomiting, cramps and diarrhea. Harmful or fatal if inhaled into the lungs (ingestion/vomiting). Can enter lungs and cause damage. Signs of lung involvement include increased respiratory rate, increased heart rate, and a bluish discolouration of the skin. Coughing, choking and gagging are often noted at the time of aspiration. |
|                                               | <b>Respiratory or skin sensitization</b>                | Rosin, maleated, polymer with glycerol (CAS no 68038-41-5) may be a skin sensitizer (guinea pigs; EPA - TSCATS, OECD 429). Rosin and some rosin derivatives have been reported to cause allergic skin reaction (sensitization) in susceptible individuals after repeated or prolonged contact.                                                                                                                   |

| IARC/NTP<br>Classification                               | Common name IARC NTP                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                          | Ethylbenzene      2B      -<br>Carbon black      2B      -                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                          | IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic.<br>NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.                                                                                                                                                                                                                                                                                |
| Carcinogenicity                                          | Contains material which can cause cancer. The risk of cancer depends on duration and level of exposure. 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 need not apply if it can be shown that the chemical contains less than 0.1 % w/w benzene. |
| Mutagenicity                                             | 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 need not apply if it can be shown that the chemical contains less than 0.1 % w/w benzene.                                                                  |
| Reproductive<br>toxicity                                 | Toluene has an embryotoxic and/or fetotoxic hazard in humans (US EPA, 2005).                                                                                                                                                                                                                                                                                                                                                                   |
| Specific target<br>organ toxicity -<br>single exposure   | Central nervous system, respiratory system.                                                                                                                                                                                                                                                                                                                                                                                                    |
| Specific target<br>organ toxicity -<br>repeated exposure | Central nervous system, liver, kidneys, hearing organs.                                                                                                                                                                                                                                                                                                                                                                                        |
| Interactive<br>effects                                   | No information available for this product.                                                                                                                                                                                                                                                                                                                                                                                                     |
| Other<br>information                                     | The acute toxicity estimate (ATE) by inhalation of the mixture was calculated to be greater than 20 mg/L/4h. The oral and skin acute toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 mg/kg. These values are not classified according to WHMIS 2015 and OSHA HCS 2012.                                                                                                                                         |

## 12. Ecological information

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ecological<br>toxicity | Fish - Oncorhynchus mykiss - Rainbow trout<br>Aquatic Invertebrate - Daphnia magna<br>Fish - Fathead minnow, Pimephales promelas - fresh water<br>Aquatic Invertebrate - Crustaceans, Daphnia Magna<br>Plant - Lettuce seed germination, Lactuca Sativa<br>Algea, Pseudokirchneriella subcapitata<br><br>Fish - Pimephales promelas [flow-through]<br><br>Fish - Pimephales promelas [static]<br>Aquatic Invertebrate - Daphnia magna<br>Algea - Desmodesmus subspicatus<br>Fish - Lepomis macrochirus [static]<br>Aquatic Invertebrate - Daphnia magna<br>Algea - Desmodesmus subspicatus<br>Fish - Pimephales promelas [flow-through]<br>Aquatic Invertebrate - Daphnia magna<br>Algea, Desmodesmus subspicatus<br>Fish various<br>Crustaceans various<br>Fish - Oncorhynchus mykiss - Rainbow trout<br>Aquatic Invertebrate - Daphnia magna<br>Fish - Oncorhynchus mykiss - Rainbow trout<br>Aquatic Invertebrate - Daphnia magna | LC50 4740 mg/L; 96 h (acetone)<br>EC50 12600-12700 mg/L; 48 h (acetone)<br><br>LC50 9640 mg/L; 96 h (Isopropyl alcohol)<br>EC50 3644 mg/L; 48 h (Isopropyl alcohol)<br>EC50 2100 mg/L; 72 h (Isopropyl alcohol)<br>EC50 579 mg/L; 96h (Nitrocellulose)<br><br>LC50 126-137 mg/L; 96 h (Methyl n-amyl ketone)<br>LC50 1376 mg/L; 96 h (n-Butyl alcohol)<br>EC50 1983 mg/L; 48 h (n-Butyl alcohol)<br>EC50 >500 mg/L; 72 h (n-Butyl alcohol)<br>LC50 0.48-0.85 mg/L; 96 h (CAS no 103-23-1)<br>EC50 >1.6 mg/L; 48 h (CAS no 103-23-1)<br>EC50 >500 mg/L; 72 h (CAS no 103-23-1)<br>LC50 18 mg/L; 96h (Butyl acetate)<br>EC50 44 mg/L; 48 h (n-Butyl acetate)<br>EC50 675 mg/L; 72h (Butyl acetate)<br>LC50 >160 mg/L ; 96h (2-Butoxyethanol)<br>EC50 >130 mg/L ; 48h (2-Butoxyethanol)<br>LC50 13.5-17.3 mg/L; 96 h (Xylene)<br>EC50 3.82 mg/L; 48 h (Xylene)<br>LC50 5.8 mg/L; 96 h (Toluene)<br>EC50 5.46-9.83 mg/L; 48 h (Toluene) |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
|                                  | Fish - <i>Oncorhynchus mykiss</i> - Rainbow trout<br>Aquatic invertebrate - <i>Crangon franciscorum</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LC50 4.2 mg/L; 96 h (Ethylbenzene)<br>EC50 0.49 mg/L; 48 h (Ethylbenzene) |
| <b>Persistence</b>               | Contains an or many ingredients that may be persistent in aquatic environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                           |
| <b>Degradability</b>             | <p>Acetone is readily biodegradable at 91% in 28 days (OECD 301B). Rosin, maleated, polymer with glycerol (CAS no 68038-41-5) is of low solubility and is not readily biodegradable. n-Butyl acetate is readily biodegradable (96% in 28 days) OECD Guideline 301D. Toluene in air is rapidly decomposed by photochemical processes, mainly through oxidation by hydroxyl free radicals as well as some decomposition by direct photolysis. The half-life time in air is estimated to be from 1 to 2 days. Toluene is Biodegradable (100% in 10 days, OECD 301C). Its Biochemical Oxygen Demand (BOD) is 2150 mg O<sub>2</sub>/L (IUCLID) and its Chemical Oxygen Demand (COD) is 2520 mg O<sub>2</sub>/g (IUCLID). 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). Xylene in air is rapidly decomposed by photochemical processes, mainly through oxidation by hydroxyl free radicals as well as some decomposition by direct photolysis. The half-life time in air is estimated to be from 9.5 to 19.7 hours depending to the isomer. Xylene is readily biodegradable at 68% in 10 days and at 88% in 28 days (OECD Guideline 301F) with BOD5/COD ratio of 0.97 (IUCLID). Methyl n-amyl ketone is readily biodegradable at 69% after 28 days (OECD Guideline 310). 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 T<sub>½</sub> of 18 to 25 hours. n-Butyl Alcohol is readily biodegradable. Degradation by Biochemical Oxygen Demand BOD (O<sub>2</sub> consumption) was reported as 92% after 20 days. Bis(2-Ethylhexyl) adipate is readily biodegradable &gt;90% in 28 days (OECD Guideline 301F). 2-Butoxyethanol is readily biodegradable 90.4% in 28 days (OECD Guideline 301B). Ethylbenzene is biodegraded fairly rapidly by sewage or activated sludge (TOXNET).</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. n-Butyl acetate has a low potential for bioaccumulation based on estimated bioconcentration factors (BCF) of 15.3 and low partition coefficient (Log Kow 2.3). Toluene has Bioconcentration Factor (BCF) in two fish species of 13 and 90, and its partition factor Log Kow of 2.65. These values suggest a low to moderate potential of bioaccumulation. Xylene has Bioconcentration Factor (BCF) of 6 to 23.4 and a partition factor Log Kow of 3.1 to 3.2, depending to the isomer. These values suggest a low potential of bioaccumulation (TOXNET). Methyl n-amyl ketone has an estimated a Bioconcentration Factor (BCF) of 7 and partition coefficient log Kow of 1.98 which suggest a low potential for bioconcentration in aquatic organisms (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. 2-Butoxyethanol is not expected to bioaccumulate based on a low partition coefficient (Log Kow &lt;2). Rosin, maleated, polymer with glycerol (CAS no 68038-41-5) has a partition coefficient Log Kow &gt;4, which show some potential to bioaccumulation. Ethylbenzene has a low potential for bioaccumulation (BCF) of 1.1 to 15 were measured in four species of fish. It has low water solubility and a moderate partition coefficient (Log Kow of 3.15).</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. n-Butyl acetate will be distributed to air (93.4%), water (5.78%), soil (0.792%), and sediment (&lt;0.1%). The Koc value of n-butyl acetate can be estimated to be 19, suggesting that it is expected to have very high mobility in soil. Toluene will rapidly evaporate into the atmosphere because of its low soil absorption and its low solubility in water. Its Koc values range from 37 to 178 in a sandy soil suggest that toluene is expected to have high to moderate mobility in soil (TOXNET Data). Xylene will rapidly evaporate into the atmosphere because of its low soil absorption and its low solubility in water. Koc values range from 39-365 for the individual isomers. These values suggest that xylenes are expected to have high to moderate mobility in soil (TOXNET). Methyl n-amyl ketone can be volatilized from moist soil surfaces (SRC). The estimated Koc value of 280 indicates that it is expected to have high mobility in soil. 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. The estimated Koc value of 0.83 suggests that 2-Butoxyethanol is expected to have high mobility in soil (TOXNET). Ethylbenzene is expected to have a moderate mobility in soil with an estimated Koc value of 520 (TOXNET).</p>                                                                                                                                                                                                                                                                                                                                 |                                                                           |
| <b>Other adverse effects</b>     | This chemical does not deplete the ozone layer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                           |

## 13. Disposal considerations

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Container</b> | Important! Prevent waste generation. Use in full. DO NOT dispose residue in sewers, streams or drinking water supply. DO NOT puncture, cut, heat or burn container, even after use. 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. |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 14. Transport information

|                                                                                                                                                                                                                                                                                                                                                            |                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>UN Number</b>                                                                                                                                                                                                                                                                                                                                           | UN 1263                                                                                      |
| <b>UN Proper Shipping Name</b>                                                                                                                                                                                                                                                                                                                             |                                                                                              |
| <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.                                                              |
| 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. |                                                                                              |

## 15. Regulatory information

### CANADA

| Common name                            | CAS        | CEPA | DSL | NDSL | NPRI |
|----------------------------------------|------------|------|-----|------|------|
| Acetone                                | 67-64-1    |      | X   |      |      |
| Rosin, maleated, polymer with glycerol | 68038-41-5 |      | X   |      |      |
| Butyl acetate (normal)                 | 123-86-4   | X    | X   |      | X    |
| Toluene                                | 108-88-3   | X    | X   |      | X    |
| Nitrocellulose                         | 9004-70-0  |      | X   |      |      |
| Xylene                                 | 1330-20-7  | X    | X   |      | 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    |
| Ethylbenzene                           | 100-41-4   | X    | X   |      | X    |
| 2-Butoxyethanol                        | 111-76-2   | X    | X   |      | X    |

|                                                         |            |   |   |  |   |
|---------------------------------------------------------|------------|---|---|--|---|
| Carbon black                                            | 1333-86-4  |   | X |  |   |
| Solvent naphtha (petroleum), light aromatic (C8 to C10) | 64742-95-6 | 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 CLA | EPCRA 313 | EPCRA 302/304 | CAA 112(b) HON | CAA 112(b) HAP | CAA 112(r) | CWA 311 | CWA Prio. |
|---------------------------------------------------------|------------|------|---------|-----------|---------------|----------------|----------------|------------|---------|-----------|
| Acetone                                                 | 67-64-1    | X    | X       | X         |               | X              |                |            |         |           |
| Rosin, maleated, polymer with glycerol                  | 68038-41-5 | X    |         |           |               |                |                |            |         |           |
| Butyl acetate (normal)                                  | 123-86-4   | X    | X       |           |               |                |                |            | X       |           |
| Toluene                                                 | 108-88-3   | X    | X       | X         |               | X              | X              |            | X       | X         |
| Nitrocellulose                                          | 9004-70-0  | X    |         |           |               |                |                |            |         |           |
| Xylene                                                  | 1330-20-7  | X    | X       | X         |               | X              | X              |            | 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       |           |
| Ethylbenzene                                            | 100-41-4   | X    | X       | X         |               | X              | X              |            | X       | X         |
| 2-Butoxyethanol                                         | 111-76-2   | X    |         |           |               |                |                |            |         |           |
| Carbon black                                            | 1333-86-4  | X    |         |           |               |                |                |            |         |           |
| Solvent naphtha (petroleum), light aromatic (C8 to C10) | 64742-95-6 | 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 |
|--------------|-----------|--------|-----------------------------------------|
| Toluene      | 108-88-3  |        | X                                       |
| Ethylbenzene | 100-41-4  | X      |                                         |
| Carbon black | 1333-86-4 | X      |                                         |

## Other regulations

### WHMIS 1988



B2



D1A

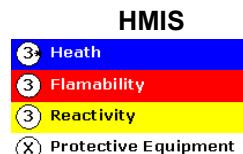


D2A



D2B

Class B2 : Flammable Liquid  
 Class D1A : Very toxic material causing immediate and serious toxic effects  
 Class D2A : Very toxic material causing other toxic effects  
 Class D2B : Toxic material causing other toxic effects



## 16. Other information

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date (YYYY-MM-DD) | GEMINI INDUSTRIES, INC. 2016-04-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Version           | 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Other information | <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>- 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>- Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNEST), <a href="http://www.reptox.csst.qc.ca">http://www.reptox.csst.qc.ca</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>- IPCS INCHEM, Chemical Safety Information from Intergovernmental Organizations, Canadian Centre for Occupational Health and Safety (CCOHS), Copyright International Programme on Chemical Safety (IPCS), <a href="http://www.inchem.org">http://www.inchem.org</a></li> <li>- OECD Existing Chemicals Database, Chemicals Screening Information DataSet (SIDS) for High Volume Chemicals, UNEP publications, <a href="http://webnet.oecd.org/HPV/UI/Search.aspx">http://webnet.oecd.org/HPV/UI/Search.aspx</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 Préventis 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> |