



# Safety Data Sheet

## Presidio White Vinyl CV Primer







### 1. Identification

<b>Product identifier</b>	Presidio White Vinyl CV Primer		
<b>Product code</b>	CVP-1000		
<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. 2300 Holloway Drive El Reno, OK 73036 USA  Tel. 1-800-262-5710 Fax 1-405-262-9310 <a href="http://www.geminicoatings.com">www.geminicoatings.com</a>	<b>Distributor</b>	Gemini Industries, Inc. 850 Flint Road Toronto, Ontario Canada M3J 2T7  Tel. 1-800-262-5710
<b>Emergency phone number</b>	24-hour Emergency (Spill, Leak, Exposure or accident) INFOTRAC 800-535-5053 Outside USA, Call Collect 1-352-323-3500 (French & English)  HAZMAT Response and MSDS Help: EMI 800-510-8510		

### 2. Hazard identification

<b>Summary</b>	<b>FLAMABLE LIQUID!</b> 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 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)
<b>Other hazards which do not result in classification :</b> Acute hazard to the aquatic environment (Category 2).	

#### DANGER

H225: Highly flammable liquid and vapour  
 H318: Causes serious eye damage  
 H350: May cause cancer  
 H340: May cause genetic defects  
 H360: May damage fertility or the unborn child

H315: Causes skin irritation  
 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.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves, protective clothing and eye protection.  
 P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water and soap or take a shower if necessary.  
 P332+313: If skin irritation occurs: Get medical advice or attention.  
 P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
 P310: Immediately call a doctor/physician.  
 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 the National Fire Protection Association Class B extinguisher 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

Common name	CAS	Weight % content
Acetone	67-64-1	14 - 16 %
Titanium dioxide	13463-67-7	11 - 13 %
Limestone	1317-65-3	11 - 13 %
Butyl acetate (normal)	123-86-4	9 - 11 %
Ethyl Alcohol	64-17-5	7.5 - 8.5 %
Methyl n-amyl ketone	110-43-0	7.5 - 8.5 %
Urea, polymer with formaldehyde, isobutylated	68002-18-6	7.5 - 8.5 %
Xylene	1330-20-7	3.5 - 4.5 %
2-Butenedioic acid (Z)-, dibutyl ester, polymer with chloroethene and 1,2-propanediol mono-2-propenoate	114653-42-8	3.5 - 4.5 %
Isobutyl alcohol	78-83-1	2.5 - 3.5 %
Cellulose acetate butyrate	9004-36-8	1.5 - 2.5 %
Ethylbenzene	100-41-4	0.5 - 1.5 %
Toluene	108-88-3	0.5 - 1.5 %

Solvent naphtha (petroleum), light aromatic (C8 to C10)	64742-95-6	0.1 - 1 %
Stoddard solvent (Mineral Spirits)	8052-41-3	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 severe eye irritation or eye damage. May cause skin irritation. May cause respiratory tract irritation. Inhalation of vapours may cause central nervous system depression such as drowsiness, headache, dizziness, vertigo, nausea and fatigue.
<b>Notes to the physician</b>	Treat symptomatically. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Class B extinguishers. Dry chemicals, alcohol resistant foam, carbon dioxide (CO <sub>2</sub> ). Do not use direct water jet.
<b>Specific hazards arising from the chemical</b>	Very flammable liquid and vapours. May be ignited by heat, sparks, flame or static electricity. Vapours are heavier than air and may travel to an ignition source distant from the material handling point. 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.
<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</b>	Remove sources of ignition. Ventilate the area well. Absorb with inert material (soil, sand, vermiculite) or wipe up or scrape up and place in an appropriate waste disposal container clearly identified. Use non-sparking and antistatic tools. Dispose via a licensed waste disposal contractor. Finish cleaning

cleaning up	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.
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## 7. Handling and storage

<b>Precautions for safe handling</b>	Keep away from heat, sparks and open flame. Turn off all pilot lights, flames, stoves, heaters, electric motors, welding equipment and other sources of ignition. Use non-sparking and antistatic tools. Use only in well ventilated area. 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>	Titanium dioxide: 5000 mg/m3. n-Butyl acetate: 1700 ppm. Ethyl alcohol: 3300 ppm. Isobutyl alcohol: 1600 ppm. Xylenes: 900 ppm. Ethylbenzene: 800 ppm. Methyl n-amyl ketone: 800 ppm. Stoddard solvent (Mineral Spirits): 20000 mg/m3. Acetone: 2500 ppm. Toluene : 500 ppm.			
Acetone	STEL	500 ppm		ACGIH , BC
		750 ppm	1782 mg/m <sup>3</sup>	ON
		1000 ppm	2380 mg/m <sup>3</sup>	RSST
	TWA (8h)	250 ppm		ACGIH , BC
		500 ppm	1188 mg/m <sup>3</sup>	ON
		500 ppm	1190 mg/m <sup>3</sup>	RSST
Titanium dioxide	TWA (8h)	Total Dust	10 mg/m <sup>3</sup>	ACGIH , BC, ON, RSST
Limestone	STEL	Total Dust	20 mg/m <sup>3</sup>	BC
	TWA (8h)	Total Dust	10 mg/m <sup>3</sup>	ACGIH , BC, ON, RSST
Butyl acetate (normal)	STEL	200 ppm		ACGIH , ON
		200 ppm	950 mg/m <sup>3</sup>	RSST
	TWA (8h)	20 ppm		BC
		150 ppm		ACGIH , ON
		150 ppm	713 mg/m <sup>3</sup>	RSST
Ethyl Alcohol	STEL	1000 ppm		ACGIH , BC, ON
	TWA (8h)	1000 ppm	1880 mg/m <sup>3</sup>	RSST
Methyl n-amyl ketone	TWA (8h)	25 ppm	115 mg/m <sup>3</sup>	ON
		50 ppm		ACGIH , BC

Xylene	STEL	50 ppm	233 mg/m <sup>3</sup>	RSST
		150 ppm		ACGIH , BC, ON
	TWA (8h)	150 ppm	651 mg/m <sup>3</sup>	RSST
		100 ppm		ACGIH , BC, ON
		100 ppm	434 mg/m <sup>3</sup>	RSST
Isobutyl alcohol	TWA (8h)	50 ppm		ACGIH , BC, ON
		50 ppm	152 mg/m <sup>3</sup>	RSST
Ethylbenzene	STEL	125 ppm	543 mg/m <sup>3</sup>	RSST
	TWA (8h)	20 ppm		ACGIH , BC, ON
		100 ppm	434 mg/m <sup>3</sup>	RSST
Toluene	TWA (8h)	20 ppm		ACGIH , BC, ON
		50 ppm	188 mg/m <sup>3</sup>	RSST (Pc)
Stoddard solvent (Mineral Spirits)	STEL		580 mg/m <sup>3</sup>	BC
			290 mg/m <sup>3</sup>	BC
		100 ppm	525 mg/m <sup>3</sup>	ACGIH , ON, 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.			
<b>Individual protection measures</b>				
<b>Eye</b>	Wear chemical splash goggles.			
<b>Hands</b>	Wear nitrile or neoprene gloves. Before using, user should confirm impermeability. Discard gloves with tears, pinholes, or signs of wear. Gloves must only be worn on clean hands. 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. Respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations and CSA Standard Z 94.4 and approved by NIOSH / MSHA. In case of insufficient ventilation or in confined or enclosed space and for an assigned protection factor (APF) up to 10 times the exposure limit, wear a half mask respirator with organic vapour cartridges fitted with P100 filters. For an APF until maximum 100 times of exposure limit, wear a full face respirator mask with organic vapour cartridges and P100 filters.			
<b>Feet</b>	Wear rubber boots to clean up a spill.			

## 9. Physical and chemical properties

<b>Physical state</b>	Liquid	<b>Flammability</b>	Flammable
<b>Colour</b>	White	<b>Flammability limits</b>	N/Av.
<b>Odour</b>	Solvent odor	<b>Flash point</b>	0 °C (32 °F)
<b>Odour threshold</b>	N/Av.	<b>Auto-ignition temperature</b>	363 °C (685.4 °F)
<b>pH</b>	N/Av.	<b>Sensibility to electrostatic charges</b>	Yes
<b>Melting point</b>	N/Av.	<b>Sensibility to sparks and/or friction</b>	No
<b>Freezing point</b>	N/Av.	<b>Vapour density</b>	>1 (Air = 1)
<b>Boiling point</b>	56 to 138 °C (132.8 to 280.4 °F)	<b>Relative density</b>	1.11 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>	52.6%	<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 (such as nitric acid, perchloric acid, peroxides, chlorates and perchlorates).
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

<b>Numerical measures of toxicity</b>	Acetone	Ingestion	5800 mg/kg	Rat	LD50
		Inhalation	71.4 mg/l/4h	Rat	LC50
		Skin	15800 mg/kg	Rabbit	LD50
	Limestone	Ingestion	6450 mg/kg	Rat	LD50
	Titanium dioxide	Ingestion	>10000 mg/kg	Rat	LD50
		Inhalation	>6.82 mg/l/4h	Rat	LC50
		Skin	>10000 mg/kg	Rabbit	LD50
	Butyl acetate (normal)	Ingestion	10768 mg/kg	Rat	LD50
		Inhalation	>32.5 mg/l/4h	Rat	LC50
		Skin	>17600 mg/kg	Rabbit	LD50
	Ethyl Alcohol	Ingestion	7060 mg/kg	Rat	LD50
		Inhalation	39 mg/l/4h	Mouse	LC50
		Skin	20000 mg/kg	Rabbit	LD50
	Methyl n-amyl ketone	Ingestion	1670 mg/kg	Rat	LD50
		Inhalation	>9.34 mg/l/4h	Rat	LC50
			<18.7 mg/l/4h	Rat	LC50
		Skin	10220 mg/kg	Rabbit	LD50
	Urea, polymer with formaldehyde, isobutylated	Ingestion	>5000 mg/kg	Rat	LD50
		Skin	>5000 mg/kg	Rabbit	LD50
	2-Butenedioic acid (Z)-, dibutyl ester, polymer with chloroethene and 1,2-propanediol mono-2-propenoate	Ingestion	>2000 mg/kg	Rat	LD50
		Skin	>2000 mg/kg	Rabbit	LD50
	Xylene	Ingestion	3523 mg/kg	Rat	LD50
		Inhalation	27.6 mg/l/4h	Rat	LC50
		Skin	3200 mg/kg	Rabbit	LD50
	Isobutyl alcohol	Ingestion	2460 mg/kg	Rat	LD50
		Inhalation	19.2 mg/l/4h	Rat	LC50
		Skin	3400 mg/kg	Rabbit	LD50

	Cellulose acetate butyrate		Ingestion	>3200 mg/kg	Rat	LD50
					Guinea	
			Skin	>1000 mg/kg	pig	LD50
	Ethylbenzene		Ingestion	3500 mg/kg	Rat	LD50
			Inhalation	17.3 mg/l/4h	Rat	LC50
			Skin	15380 mg/kg	Rabbit	LD50
	Toluene		Ingestion	5600 mg/kg	Rat	LD50
			Inhalation	30.2 mg/l/4h	Rat	LC50
			Skin	12600 mg/kg	Rabbit	LD50
	Solvent naphtha (petroleum), light aromatic (C8 to C10)		Ingestion	8400 mg/kg	Rat	LD50
			Inhalation	>5.2 mg/l/4h	Rat	LC50
			Skin	>3750 mg/kg	Rabbit	LD50
	Stoddard solvent (Mineral Spirits)		Ingestion	>5000 mg/kg	Rat	LD50
			Inhalation	>12 mg/l/4h	Rat	LC50
			Skin	>3000 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 severe eye irritation or eye damage. Eye Irritation/Corrosion, Rabbit (OECD TG 405): tests performed with each ingredient of this mixture gave from mild irritating to corrosive results.				
	<b>Skin contact</b>	May cause redness, dryness, rash and skin irritation. Prolonged and repeated contact may cause dry skin, irritation or dermatitis. Skin Irritation/Corrosion, Rabbit (OECD 404) : tests performed with each ingredient of this mixture gave not irritating to irritating results.				
	<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. Ingestion of large amounts may cause depression of the central nervous system characterized by headache, dizziness, convulsions and loss of consciousness.				
	<b>Respiratory or skin sensitization</b>	Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.				
	<b>IARC/NTP Classification</b>	<b>Common name IARC NTP</b> Titanium dioxide 2B - Ethylbenzene 2B - IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic. NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.				
	<b>Carcinogenicity</b>	Contains material which can cause cancer. There is sufficient evidence for the carcinogenicity of alcoholic (Ethanol) beverages in humans (IARC). The occurrence of malignant tumors of the oral cavity, pharynx, larynx, oesophagus, liver, breast and colorectal is causally related to the excessive consumption of alcoholic beverages. In the absence of specific test data, the classification of stoddard solvent (Mineral Spirits) (CAS no 8052-41-3) 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. 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.				
	<b>Mutagenicity</b>	In the absence of specific test data, the classification of stoddard solvent (Mineral Spirits) (CAS no 8052-41-3) 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. 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				

	<p>contains less than 0.1 % w/w benzene. Ethyl Alcohol has showed positive results in dominant lethal tests by oral and intraperitoneal administration to mice and oral administration to rats (in vivo heritable germ cell mutagenicity tests) (SIDS (2009), IARC (1988)). There are also reports of negative Ames tests from in vitro mutagenicity tests SIDS (2009).</p> <p><b>Reproductive toxicity</b> Toluene has an embryotoxic and/or fetotoxic hazard in humans (US EPA, 2005). A significant and prolonged consumption of ethyl alcohol during pregnancy can cause an increased risk of developmental abnormalities fetus humans. Xylene overexposure may affect fetal development in laboratory animals by inhalation during pregnancy.</p> <p><b>Specific target organ toxicity - single exposure</b> Central nervous system, respiratory system.</p> <p><b>Specific target organ toxicity - repeated exposure</b> Central nervous system, hearing organs, liver, kidneys.</p>
<b>Interactive effects</b>	No information available for this product.
<b>Other information</b>	The oral acute toxicity estimate (ATE) of the mixture was calculated to be greater than 300 mg/Kg but lower than 2000 mg/kg. This value is classified according to GHS: Acute toxicity, oral (Category 4). The skin acute toxicity estimate (ATE) of the mixture was calculated to be greater than 2000 mg/kg. This value is not classified according to WHMIS and OSHA HCS 2012. The acute toxicity estimate (ATE) by inhalation of the mixture was calculated to be greater than 20 mg/L/4h. This value is not classified according to GHS.


## 12. Ecological information

<b>Ecological toxicity</b>	<p>Fish - Pimephales promelas [flow-through] LC50 18 mg/L; 96h (Butyl acetate)</p> <p>Aquatic Plant - Algea, Desmodesmus subspicatus EC50 675 mg/L; 72h (Butyl acetate)</p> <p>Fish - Pimephales promelas - Fresh water LC50 1370-1670 mg/L; 96 h (Isobutyl alcohol)</p> <p>Aquatic Invertebrate - Daphnia magna EC50 1300 mg/L; 48 h (Isobutyl alcohol)</p> <p>Fish - Oncorhynchus mykiss - Rainbow trout LC50 13.5-17.3 mg/L; 96 h (Xylene)</p> <p>Aquatic Invertebrate - Daphnia magna EC50 3.82 mg/L; 48 h (Xylene)</p> <p>Fish - Pimephales promelas - Fresh water LC50 &gt;500 mg/L; 96 h (Titanium dioxide)</p> <p>Aquatic Invertebrates - Daphnia pulex EC50 9.2 mg/L; 48 h (Titanium dioxide)</p> <p>Fish - Pimephales promelas [flow-through] LC50 13400-15100 mg/L; 96 h (ethyl alcohol)</p> <p>Aquatic Invertebrate - Daphnia magna EC50 9268-14221 mg/L; 48 h (ethyl alcohol)</p> <p>Fish - Pimephales promelas [flow-through] LC50 126-137 mg/L; 96 h (Methyl n-amyl ketone)</p> <p>Fish - Oncorhynchus mykiss - Rainbow trout LC50 4.2 mg/L; 96 h (Ethylbenzene)</p> <p>Aquatic invertebrate - Crangon franciscorum EC50 0.49 mg/L; 48 h (Ethylbenzene)</p> <p>Fish - Oncorhynchus mykiss - Rainbow trout LC50 4740 mg/L; 96 h (acetone)</p> <p>Aquatic Invertebrate - Daphnia magna EC50 12600-12700 mg/L; 48 h (acetone)</p> <p>Fish - Oncorhynchus mykiss - Rainbow trout LC50 5.8 mg/L; 96 h (Toluene)</p> <p>Aquatic Invertebrate - Daphnia magna EC50 5.46-9.83 mg/L; 48 h (Toluene)</p>
<b>Persistence</b>	Inorganic compounds persist in the environment indefinitely or incorporate into biological systems.
<b>Degradability</b>	The term biodegradability, as such, is not applicable to inorganic compounds like Titanium dioxide. Ethanol is readily biodegradable under aerobic and anaerobic conditions (OECD Test Guideline 301D). n-Butyl acetate is readily biodegradable (96% in 28 days) OECD Guideline 301D. Xylene in air is rapidly decomposed by photochemical processes, mainly through oxidation by hydroxyle 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). Isobutyl alcohol is readily biodegradable, 74% in 28 days (OCDE 301D). Methyl n-amyl ketone is readily biodegradable at 69% after 28 days (OECD Guideline 310). Ethylbenzene is biodegraded fairly rapidly by sewage or activated sludge (TOXNET). Acetone is readily biodegradable at 91% in 28 days (OECD 301B). 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).
<b>Bioaccumulative potential</b>	Ethanol has a Bioconcentration Factor (BCF) value of <10, and its Log Kow value is <0, indicating its potential to bioaccumulate is low. 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). 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). Isobutyl alcohol has a low potential to bioaccumulate with a bioconcentration factor (BCF) of 3 (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). 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). Acetone has a Bioconcentration Factor (BCF) of 0.65 and a partition factor Log Kow of -0.24, indicating no bioaccumulation. 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.
<b>Mobility in soil</b>	Ethanol is very soluble in water. The resultant Koc of 1 indicates that ethanol released in soil would move quickly through the soil. It will be distributed mainly in the atmosphere (57%) and water (34%). n-Butyl acetate will be distributed to air (93.4%), water (5.78%), soil (0.792%), and sediment (<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. 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). Isobutyl alcohol should have a very high mobility in soil with an estimated Koc value of 2.9 (TOXNET) and it distributes itself into the atmosphere (32.02%), water (67.92%), soil (0.03%), and sediments (0.03%). 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. Ethylbenzene is expected to have a moderate mobility in soil with an estimated Koc value of 520 (TOXNET). 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. 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).
<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 of residue in sewers, streams or drinking water supply. Paint residues, including lacquers, stains, shellac, varnish, solvents and paint thinners, can be reprocessed (recycle) anywhere there is a recovery program. Dispose via a licensed waste disposal contractor. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.
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### 14. Transport information

<b>UN Number</b>	UN 1263
<b>UN Proper Shipping Name</b>	PAINT
<b>Environmental hazards</b>	This material does not contain marine pollutant.
<b>Special precautions for user</b>	Permit required for transportation with proper placards displayed on vehicle.
<b>TDG - Transportation of Dangerous Goods (Canada)</b>	

<b>Transport hazard class(es)</b>	 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		
Titanium dioxide	13463-67-7		X		
Limestone	1317-65-3			X	
Butyl acetate (normal)	123-86-4	X	X		X
Ethyl Alcohol	64-17-5	X	X		X
Methyl n-amyl ketone	110-43-0		X		
Urea, polymer with formaldehyde, isobutylated	68002-18-6		X		
Xylene	1330-20-7	X	X		X
2-Butenedioic acid (Z)-, dibutyl ester, polymer with chloroethene and 1,2-propanediol mono-2-propenoate	114653-42-8		X		
Isobutyl alcohol	78-83-1	X	X		X
Cellulose acetate butyrate	9004-36-8		X		
Ethylbenzene	100-41-4	X	X		X
Toluene	108-88-3	X	X		X
Solvent naphtha (petroleum), light aromatic (C8 to C10)	64742-95-6	X	X		X
Stoddard solvent (Mineral Spirits)	8052-41-3	X	X		X

- CEPA: List of Toxic Substances Managed Under Canadian Environmental Protection Act

- DSL: Domestic Substances List Inventory

- NDSL: Non-Domestic Substances List Inventory

- NPRI: National Pollutant Release Inventory Substances

### UNITED STATE OF AMERICA




Common name	CAS	TSCA	CERCLA	EPCRA 313	EPCRA 302/304	CAA 112(b) HON	CAA 112(b) HAP	CAA 112(r)	CWA 311	CWA Priority
Acetone	67-64-1	X	X			X				
Titanium dioxide	13463-67-7	X								
Limestone	1317-65-3	X								
Butyl acetate (normal)	123-86-4	X	X						X	
Ethyl Alcohol	64-17-5	X								
Methyl n-amyl ketone	110-43-0	X								
Urea, polymer with formaldehyde, isobutylated	68002-18-6	X								

Xylene	1330-20-7	X	X	X		X	X		X	
2-Butenedioic acid (Z)-, dibutyl ester, polymer with chloroethene and 1,2-propanediol mono-2-propenoate	114653-42-8									
Isobutyl alcohol	78-83-1	X	X							
Cellulose acetate butyrate	9004-36-8	X								
Ethylbenzene	100-41-4	X	X	X		X	X		X	X
Toluene	108-88-3	X	X	X		X	X		X	X
Solvent naphtha (petroleum), light aromatic (C8 to C10)	64742-95-6	X								
Stoddard solvent (Mineral Spirits)	8052-41-3	X								

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

### California Proposition 65

Common name	CAS	Cancer	Reproductive and Developmental Toxicity
Titanium dioxide	13463-67-7	X	
Ethyl Alcohol	64-17-5	X	X
Ethylbenzene	100-41-4	X	
Toluene	108-88-3		X

Other regulations								
	<p><b>WHMIS 1988</b></p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>B2    D2A    D2B</p> <p>Class B2 : Flammable Liquid</p> <p>Class D2A : Very toxic material causing other toxic effects</p> <p>Class D2B : Toxic material causing other toxic effects</p> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <div style="text-align: center;"> <p><b>HMIS</b></p> <table border="1" style="background-color: #0000FF; color: white; width: 100px;"> <tr><td>3</td><td>Health</td></tr> <tr><td>3</td><td>Flamability</td></tr> <tr><td>0</td><td>Reactivity</td></tr> <tr><td>X</td><td>Protective Equipment</td></tr> </table> </div> <div style="text-align: center;"> <p><b>NFPA</b></p>  </div> </div>	3	Health	3	Flamability	0	Reactivity	X
3	Health							
3	Flamability							
0	Reactivity							
X	Protective Equipment							

## 16. Other information

Date (YYYY-MM-DD)	GEMINI INDUSTRIES, INC. 2016-04-14
Version	01

**Other  
information**

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

REFERENCES:

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

ACGIH: American Conference of Governmental Industrial Hygienists  
AIHA: American Industrial Hygiene Association  
HMIS: Hazardous Materials Identification System  
NFPA: National Fire Protection Association  
OSHA: Occupational Safety and Health Administration (USA)  
NIOSH: National Institute for Occupational Safety and Health  
NTP: National Toxicology Program  
RSST: Règlement sur la santé et la sécurité du travail (Québec)  
GHS: Globally Harmonized System  
IARC: International Agency for Research on Cancer  
IDLH: Immediately Dangerous to Life or Health  
STEL: Short Term Exposure Limit (15 min)  
TWA: Time Weighted Averages  
WHMIS: Workplace Hazardous Materials Information System

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