

Safety Data Sheet NEXUS PRECAT PRIMER



1. Identification				
Product identifier	NEXUS PRECAT PRIMER			
Product code	NPRW-5000			
Other means of identification	None.			
Recommended use of the chemical and restrictions on use	A protective and/or decorative finish or accompanying paint product. Not recommended for any other use not detailed on product data sheet or label.			
Manufacturer	GEMINI INDUSTRIES, INC. 2300 Holloway Drive El Reno, OK 73036 USA Tel. 1-800-262-5710 Fax 1-405-262-9310 www.gemini-coatings.com	Distributor	Gemini Industries, Inc. 850 Flint Road Toronto, Ontario Canada M3J 2T7 Tel. 1-800-262-5710	
Emergency phone number	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

Summary

Highly flammable liquid and vapour. 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.

WHMIS 2015/OSHA HCS 2012/GHS



Flammable liquids (Category 2) Skin corrosion/irritation (Category 2)

Serious eye damage/eye irritation (Category 2)

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)

DANGER

H225: Highly flammable liquid and vapour

H350: May cause cancer

H340: May cause genetic defects

H360: May damage fertility or the unborn child

H319: Causes serious eye irritation

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

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.

P233: Keep container tightly closed.

P240: Ground or bond container and receiving equipment.

P241: Use explosion-proof electrical equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing vapours and spray.

P264: Wash face, hands and any exposed 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.

P308+313: IF exposed or concerned: Get medical attention.

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.

P337+313: If eye irritation persists: Get medical advice or attention.

P362+364: Take off contaminated clothing and wash before reuse.

P370+378: In case of fire: Use ABC dry chemical to extinguish.

P403+P235+P233: Store in a well-ventilated place. Keep container tightly closed. Keep cool.

P405: Store locked up.

P501: Dispose of contents and container to a licensed chemical disposal agency in accordance with local, regional and national regulations.

3. Composition/information on ingredients				
Common name	CAS	Weight % content		
Butyl acetate (normal)	123-86-4	17 - 19 %		
Ethyl alcohol	64-17-5	14 - 16 %		
Talc	14807-96-6	14 - 16 %		
Titanium dioxide	13463-67-7	11 - 13 %		
Urea, polymer with formaldehyde, isobutylated	68002-18-6	6 - 8 %		
Toluene	108-88-3	4 - 6 %		
Isobutyl alcohol	78-83-1	2.5 - 3.5 %		
Xylene	1330-20-7	1.5 - 2.5 %		
Nitrocellulose	9004-70-0	1.5 - 2.5 %		
Isopropyl alcohol	67-63-0	1.5 - 2.5 %		
Silica Gel	112926-00-8	1 - 2 %		
Acetone	67-64-1	1 - 2 %		
Ethylbenzene	100-41-4	0.1 - 1 %		

4. First-aid measures

Inhalation

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.

Skin contact	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.
Eye contact	IMMEDIATELY! Flush with water for at least 15 minutes. Remove contact lenses if easy to do. Hold eyelids apart to rinse properly. If a problem develops or persists, seek medical attention.
Ingestion	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.
Other	No information available.
Symptoms	May cause redness and irritation to eyes. May cause redness, dryness, rash and 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.
Notes to the physician	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			
Suitable extinguishing media	Dried powder, chemical foam, carbon dioxide (CO2), ABC fire extinguishing. Do not use a heavy water jet.		
Specific hazards arising from the chemical	Highly flammable liquid and vapour. 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.		
Special protective equipment	Firefighters must wear self contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.		
Special protective actions for fire-fighters	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			
Personal precautions, protective equipment and emergency procedures	Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.		
Environmental precautions	Prevent entry in sewer and other enclosed area. For a large spill, consult the Department of Environment or the relevant authorities.		
Methods and materials for containment and cleaning up	Remove sources of ignition. Ventilate the area well. Stop leak, if it's possible to do so without risk. Absorb with inert material (soil, sand, vermiculite) and place in an appropriate waste disposal clearly identified. Use non-sparking and antistatic tools. Dispose via a licensed waste disposal contractor. Finish cleaning the contaminated surface by rinsing with soapy water.		

7. Handling and storage Precautions for safe handling 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 transfering large quantities (5 gallons US or 20 L and more). Use only in well ventilated area. Do not breathe vapours, mists or aerosols. 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.
Conditions for safe storage, including any incompatibilities	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.
Storage temperature	10 to 25°C (50 to 77°F)

8. Exposure controls/personal protection					
Immediately Dangerous to Life or Health	n-Butyl aceta Ethyl alcoho Talc: 1000 n Toluene: 500 Isobutyl alco Xylenes: 900 Silica - Amo	ng/m3. D ppm hol: 1600 ppm. D ppm. rphous, gel: 3000 mg cohol: 2000 ppm. D0 ppm.	g/m3.		
Butyl acetate (normal)	STEL TWA (8h)		200 ppm 200 ppm 20 ppm	950 mg/m ³	ACGIH , ON RSST BC
			150 ppm 150 ppm	713 mg/m ³	ACGIH , ON RSST
Ethyl alcohol	STEL TWA (8h)		1000 ppm 1000 ppm	1880 mg/m ³	ACGIH , BC, ON RSST
Talc	TWA (8h)	Respirable Dust Respirable Dust		2 mg/m ³ 3 mg/m ³	ACGIH , BC, ON RSST (Pr)
Titanium dioxide Toluene	TWA (8h) TWA (8h)	Total Dust	20 ppm	10 mg/m ³	ACGIH, BC, ON, RSST ACGIH, BC, ON
Isobutyl alcohol	TWA (8h)		50 ppm 50 ppm 50 ppm	188 mg/m ³ 152 mg/m ³	RSST (Pc) ACGIH , BC, ON RSST
Isopropyl alcohol	STEL		400 ppm 500 ppm	1230 mg/m ³	ACGIH , BC, ON RSST
	TWA (8h)		200 ppm 400 ppm	983 mg/m ³	ACGIH, BC, ON RSST
Xylene	STEL TWA (8h)		150 ppm 150 ppm	651 mg/m ³	ACGIH, BC, ON
Acetone	STEL		100 ppm 100 ppm 500 ppm	434 mg/m ³	ACGIH , BC, ON RSST ACGIH , BC, ON
Acetorie	TWA (8h)		1000 ppm 250 ppm	2380 mg/m ³	RSST ACGIH , BC, ON
Silica Gel	TWA (8h)	Respirable Dust Total Dust Respirable Dust Total Dust	500 ppm	1190 mg/m ³ 1.5 mg/m ³ 4 mg/m ³ 6 mg/m ³ 10 mg/m ³	RSST BC BC RSST ACGIH, ON

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Ethylbenzene	STEL	125 ppm	543 mg/m ³	RSST
	TWA (8h)	20 ppm		ACGIH, BC, ON
		100 ppm	434 mg/m ³	RSST
Appropriate engineering controls	Provide sufficient mechanical concentrations of vapours, milimits.			
Individual protection m	easures			
Eye	Wear chemical splash goggle	s.		
Hands	Wear nitrile or neoprene gloves. Disposable nitrile gloves can also be used, but discard after single use. Before using, user should confirm impermeability. Discard gloves with tears, pinholes, or signs of wear. Gloves must only be worn on clean hands.			
Skin	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.			nd legs as required by employer
Respiratory	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.			
Feet	Wear rubber boots to clean u	p a spill.		

Physical state	Liquid	Flammability	Flammable
Colour	White or coloured	Flammability limits	N/Av.
Odour	Solvent odor	Flash point	0°C (32°F)
Odour threshold	N/Av.	Auto-ignition temperature	170°C (338°F)
рН	N/Ap.	Sensibility to electrostatic charges	Yes
Melting point	N/Av.	Sensibility to sparks and/or friction	No
Freezing point	N/Av.	Vapour density	>1 (Air = 1)
Boiling point	78 to 126°C (172.4 to 258.8°F)	Relative density	1.16 to 1.17 kg/L (Water = 1)
Solubility	Partially soluble in water.	Partition coefficient n-octanol/water	N/Av.
Evaporation rate	> Butyl Acetate	Decomposition temperature	N/Av.
Vapour pressure	N/Av.	Viscosity	N/Av.
Percent Volatile	48.76%	Molecular mass	N/Ap.

10. Stability and reactivity			
Reactivity	No information available.		
Chemical stability	Stable under recommended storage conditions.		
Possibility of hazardous reactions (including polymerizations)	A dangerous reaction will not occur.		
Conditions to avoid	Avoid heat, flame and sparks. Avoid electro-static discharge. Avoid contact with incompatible materials.		
Incompatible materials	Strong bases, mineral acids, strong oxidizing agents (e.g. chlorine, fluorine, nitric acid, perchloric acid, peroxides, nitrates, chlorates, chromates, permanganates and perchlorates).		
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.		

11. Toxico	logical information				
Numerical	Butyl acetate (normal)	Ingestion	10768 mg/kg	Rat	LD50
measures of		Inhalation	>32.5 mg/l/4h	Rat	LC50
toxicity		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
	Talc	Ingestion	>5000 mg/kg	Rat	LD50
		Skin	>2000 mg/kg	Rabbit	LD50
	Titanium dioxide	Ingestion	>10000 mg/kg	Rat	LD50
		Inhalation	>6.82 mg/l/4h	Rat	LC50
		Skin	>10000 mg/kg	Rabbit	LD50
	Urea, polymer with formaldehyde, isobutylated	Ingestion	>5000 mg/kg	Rat	LD50
		Skin	>5000 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
	Isobutyl alcohol	Ingestion	2460 mg/kg	Rat	LD50
		Inhalation	19.2 mg/l/4h	Rat	LC50
		Skin	3400 mg/kg	Rabbit	LD50
	Isopropyl alcohol	Ingestion	3600 mg/kg	Mouse	LD50
			5045 mg/kg	Rat	LD50
			66.1 mg/l/4h	Rat	LC50
		Skin	6280 mg/kg	Rat	LD50
	Nitrocellulose	Ingestion	>5000 mg/kg	Rat	LD50
	Xylene	•	3523 mg/kg	Rat	LD50
			27.6 mg/l/4h	Rat	LC50
		Skin	3200 mg/kg	Rabbit	
	Acetone	-	5800 mg/kg	Rat	LD50
			71.4 mg/l/4h	Rat	LC50
		Skin	15800 mg/kg	Rabbit	
	Silica Gel	-	3160 mg/kg	Rat	LD50
			>2.08 mg/l/4h		LC50
		Skin	>2000 mg/kg	Rabbit	
	Ethylbenzene	-	3500 mg/kg	Rat	LD50
			17.3 mg/l/4h	Rat	LC50
		Skin	15380 mg/kg	Rabbit	LD50

Likely routes of exposure	Skin, eyes, inhalation, ingestion.		
Delayed, immediate and chronic effects	Eye contact	May cause irritation, redness, tearing and blurred vision. Eye Irritation/Corrosion, Rabbit (OECD TG 405): tests performed with each ingredient of this mixture gave not irritating to irritating results.	
	Skin contact	May cause redness and irritation of the skin. Prolonged and repeated contact may cause dry skin, irritation or dermatitis. Skin Irritation/Corrosion, Rabbit (OECD 404): tests performed with each ingredient of this mixture gave not irritating to irritating results.	
	Inhalation	May cause respiratory tract irritation. Excessive inhalation is harmful. Inhalation of vapours may cause central nervous system depression such as drowsiness, headache, dizziness, vertigo, nausea and fatigue. The severity of symptoms may vary depending on exposure conditions. Prolonged exposure may cause damage to damage to liver, kidneys, hearing organs, blood forming organs and central nervous system.	
	Ingestion	Ingestion can cause abdominal pain, nausea, cramps, headache, dizziness, diarrhea and vomiting.	
	sensitization	Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.	
	IARC/NTP Classification	Common name IARC NTP 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.	
	Mutagenicity Reproductive toxicity	Contains substances that can cause cancer based on animal data. The risk of cancer depends on duration and level of exposure. Titanium dioxide in dust form can cause cancer based on animal data. Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint and caulk. 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. There is sufficient evidence in humans for the carcinogenicity of occupational exposure as a painter (IARC Group 1). Occupational exposure as a painter causes mesothelioma, and cancers of the urinary bladder and lung (IARC Monographs, Volume 100F (2012)). 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). Toluene cross the placental barrier in humans and it is found in breast milk in animals. Toluene has an embryotoxic and/or fetotoxic hazard in humans (US EPA, 2005). Studies in humans and especially in animals are indicative that ingestion of high doses of ethanol can affect male and female fertility. A significant and prolonged consumption of ethyl alcohol during pregnancy can cause an increased risk of developmental abnormalities fetus humans.	
	Specific target	Central nervous system, respiratory system.	
	organ toxicity - single exposure		
	Specific target organ toxicity - repeated exposure	Central nervous system, respiratory system, hearing organs, liver, kidneys.	
Interactive effects	No information availa	ble for this product.	
Other information	This value is not clas	imate (ATE) by inhalation of the mixture was calculated to be greater than 20 mg/L/4h. sified according to GHS. The oral and skin acute toxicity estimates (ATE) of the mixture greater than 2000 mg/kg. These values are not classified according to WHMIS 2015 2.	

12. Ecological information Ecological Fish - Oncorhynchus mykiss - Rainbow trout LC50 4740 mg/L; 96 h (acetone) toxicity Aquatic Invertebrate - Daphnia magna EC50 12600-12700 mg/L; 48 h (acetone) Fish - Fathead minnow, Pimephales promelas - fresh water LC50 9640 mg/L; 96 h (Isopropyl alcohol) Aquatic Invertebrate - Crustaceans, Daphnia Magna EC50 3644 mg/L; 48 h (Isopropyl alcohol) EC50 2100 mg/L; 72 h (Isopropyl alcohol) Plant - Lettuce seed germination, Lactuca Sativa Fish - Pimephales promelas [flow-through] LC50 18 mg/L; 96h (Butyl acetate) EC50 675 mg/L; 72h (Butyl acetate) Algea, Desmodesmus subspicatus Algea, Pseudokirchneriella subcapitata EC50 579 mg/L; 96h (Nitrocellulose) Fish - Pimephales promelas - Fresh water LC50 1370-1670 mg/L; 96 h (Isobutyl alcohol) EC50 1300 mg/L; 48 h (Isobutyl alcohol) Aguatic Invertebrate - Daphnia magna Fish - Oncorhynchus mykiss - Rainbow trout LC50 13.5-17.3 mg/L; 96 h (Xylene) Aquatic Invertebrate - Daphnia magna EC50 3.82 mg/L; 48 h (Xylene) Fish - Pimephales promelas - Fresh water LC50 >500 mg/L; 96 h (Titanium dioxide) EC50 9.2 mg/L; 48 h (Titanium dioxide) Aguatic Invertebrates - Daphnia pulex Fish - Pimephales promelas [flow-through] LC50 13400-15100 mg/L; 96 h (ethyl alcohol) Aquatic Invertebrate - Daphnia magna EC50 9268-14221 mg/L; 48 h (ethyl alcohol) Fish - Oncorhynchus mykiss - Rainbow trout LC50 5.8 mg/L; 96 h (Toluene) Aquatic Invertebrate - Daphnia magna EC50 5.46-9.83 mg/L; 48 h (Toluene) LC50 4.2 mg/L; 96 h (Ethylbenzene) Fish - Oncorhynchus mykiss - Rainbow trout EC50 0.49 mg/L; 48 h (Ethylbenzene) Aquatic invertebrate - Crangon franciscorum **Persistence** Contains an or many ingredients that may be persistent in aquatic environment. Inorganic compounds persist in the environment indefinitely or incorporate into biological systems. Degradability N-Butyl acetate is readily biodegradable (96% in 28 days) OECD Guideline 301D. Ethanol is readily biodegradable under aerobic and anaerobic conditions (OECD Test Guideline 301D). The term biodegradability, as such, is not applicable to inorganic compounds like Titanium dioxide. 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 O2/L (IUCLID) and its Chemical Oxygen Demand (COD) is 2520 mg O2/g (IUCLID). Isobutyl alcohol is readily biodegradable, 74% in 28 days (OCDE 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). 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), Acetone is readily biodegradable at 91% in 28 days (OECD 301B), 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 T½ of 18 to 25 hours. Bioaccumulative N-Butyl acetate has a low potential for bioaccumulation based on estimated bioconcentration factors (BCF) potential of 15.3 and low partition coefficient (Log Kow 2.3). Ethanol has a Bioconcentration Factor (BCF) value of <10, and its Log Kow value is <0, indicating its potential to bioaccumulate is low. 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. Isobutyl alcohol has a low potential to

Mobility in soil

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

value <1 for isopropyl alcohol show no potential to bioaccumulate (IUCLID).

bioaccumulate with a bioconcentration factor (BCF) of 3 (TOXNET). Xylene has Bioconcentration Factor (BCF) of 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). Acetone has a Bioconcentration Factor (BCF) of 0.65 and a partition factor Log Kow of -0.24, indicating no 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). The Log Kow value <0.4 and bioconcentration factor (BCF)

mobility in soil. 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%). 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). 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%). 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). 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. Ethylbenzene is expected to have a moderate mobility in soil with an estimated Koc value of 520 (TOXNET). Isopropyl alcohol is soluble in water and will quickly evaporate into the air. There is no partition in the ground.

Other adverse effects

This chemical does not deplete the ozone layer.

13. Disposal considerations



Important! Prevent waste generation. Use in full. DO NOT dispose residue in sewers, streams or drinking water supply. Paint residues including lacquer, thinner, stain, shellac, varnish, polish can be reprocessed everywhere there is a recycling 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 inf	ormation					
UN Number	UN 1263					
UN Proper Shipping Name	PAINT					
Environmental hazards	This material does not contain marine pollutant.					
Special precautions for user	Permit required for transportation with proper DANGER placards displayed on vehicle.					
TDG - Transportation of Dangerous Goods (Canada)						
Transport hazard class(es)	Class 3					
Packing group	II					
IMO/IMDG - Internationa	l Maritime Transport					
Classification	UN 1263. PAINT. Class 3, PG II. Emergency schedules (EmS-No) F-E, S-E					
IATA - International Air Transport Association						
Classification	UN 1263. PAINT. Class 3, PG II.					
These transportation classifications a	re provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper					

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 X	
Butyl acetate (normal)	123-86-4	X	Х			
Ethyl alcohol 64-17-5		X	Х		Х	
Talc 14807-96-6			Х			
Titanium dioxide	13463-67-7		Х			
Urea, polymer with formaldehyde, isobutylated	68002-18-6		Х			
Toluene	108-88-3	X	Х		Х	
Isobutyl alcohol	78-83-1	X	Х		Х	
Xylene	1330-20-7	X	Х		Х	
Nitrocellulose	9004-70-0		Х			
Isopropyl alcohol	67-63-0	X	Х		Х	
Silica Gel	112926-00-8		Х			
Acetone	67-64-1		Х			
Ethylbenzene 100-41-4		X	Х		Х	

- 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.
Butyl acetate (normal)	123-86-4	Х	Х						Х	
Ethyl alcohol	64-17-5	Х								
Talc	14807-96-6	Х								
Titanium dioxide	13463-67-7	Х								
Urea, polymer with formaldehyde, isobutylated	68002-18-6	Х								
Toluene	108-88-3	Х	Х	Х		Х	Х		Х	Х
Isobutyl alcohol	78-83-1	Х	Х							
Xylene	1330-20-7	Х	Х	Х		Х	Х		Х	
Nitrocellulose	9004-70-0	Х								
Isopropyl alcohol	67-63-0	Х		Х					Х	
Silica Gel	112926-00-8	Х								
Acetone	67-64-1	Х	Х			Х				
Ethylbenzene	100-41-4	Х	Х	Х		Х	Х		Х	Х

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

California Proposition 65

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

Other regulations

WHMIS 1988





B2 D2A D2B

Class B2: Flammable Liquid

Class D2A : Very toxic material causing other toxic effects Class D2B : Toxic material causing other toxic effects

HMIS







16. Other information						
Date (YYYY-MM-DD)	GEMINI INDUSTRIES, INC. 2017-03-20					
Version	01					
Other information	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 - The National Center for Biotechnology Information, National Institutes of Health (NIH), U.S. National Library of Medicine, www.ncbi.nlm.nih.gov					
	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)

IARC: International Agency for Research on Cancer IDLH: Immediately Dangerous to Life or Health

GHS: Globally Harmonized System

STEL: Short Term Exposure Limit (15 min) TWA: Time Weighted Averages

WHMIS: Workplace Hazardous Materials Information System

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