

Safety Data Sheet ULTRA SOLIDS CONV. COATING SATIN



1. Identification			
Product identifier	JLTRA SOLIDS CONV. COATING SATIN		
Product code	UL-0030		
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		
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 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 1) Carcinogenicity (Category 2) Reproductive toxicity (Category 2) Specific target organ toxicity, single exposure (Category 3)

Other hazards which do not result in classification : Long-term hazard to the aquatic environment (Category 3).

DANGER

H225: Highly flammable liquid and vapour

- H318: Causes serious eye damage
- H315: Causes skin irritation
- H335: May cause respiratory irritation
- H336: May cause drowsiness or dizziness
- H351: Suspected of causing cancer
- H361: Suspected of damaging fertility or the unborn child

H412: Harmful to aquatic life with long lasting effects

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from heat, sparks, open flames and other ignition sources. No smoking.

P240: Ground or bond container and receiving equipment.

P241: Use explosion-proof electrical equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing vapours, mist 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.

P310: Immediately call a doctor/physician.

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

P370+378: In case of fire: Use the National Fire Protection Association Class B extinguisher to extinguish.

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

P405: Store locked up.

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

3. Composition/information on ingredients				
Common name	CAS	Weight % content		
Butyl acetate (normal)	123-86-4	27 - 29 %		
n-Propanol	71-23-8	11 - 13 %		
Nitrocellulose	9004-70-0	9 - 11 %		
Acetone	67-64-1	7 - 9 %		
Propylene glycol monomethyl ether acetate	108-65-6	6 - 8 %		
Urea, polymer with formaldehyde, isobutylated	68002-18-6	5 - 7 %		
Isopropyl alcohol	67-63-0	3.5 - 4.5 %		
Bis(2-Ethylhexyl) adipate	103-23-1	2.5 - 3.5 %		
Isobutyl alcohol	78-83-1	1.5 - 2.5 %		
n-Butyl Alcohol	71-36-3	0.5 - 1.5 %		
Ethylbenzene	100-41-4	0.1 - 1 %		
Xylene	1330-20-7	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 severe eye irritation or eye damage. May cause redness, dryness or rash 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.
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	Class B extinguishers. Dry chemicals, alcohol resistant foam, carbon dioxide (CO2). Do not use a heavy water jet.	
Specific hazards arising from the chemical	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.	
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. 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. Use only in well ventilated area. Avoid prolonged or repeated breathing of vapour or mists. Avoid contact with skin, eves and clothing. Wear eve protection, gloves and other protective clothing that are	

adapted to the task being performed and the risks involved. Keep containers tightly closed when not

	in use. Containers of this material may be hazardous even when empty. Since empty containers retain product residues (vapour, liquid), all hazard precautions given in this sheet must be observed. Do not eat, do not drink and do not smoke during use. Wash hands, forearms and face thoroughly after handling this compound and before eating, drinking or using toiletries. Remove contaminated clothing and wash before reuse. 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.
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 acetate: 17 n-Propanol: 800 pp Acetone: 2500 ppm Isopropyl alcohol: 2 n-Butyl Alcohol: 140 Isobutyl alcohol: 16 Xylenes: 900 ppm. Ethylbenzene: 800	m. n. 000 ppm. 00 ppm. 00 ppm.			
Butyl acetate (normal)		STEL	200 ppm		ACGIH , ON
			200 ppm	950 mg/m ³	RSST
		TWA (8h)	20 ppm		BC
			150 ppm		ACGIH , ON
			150 ppm	713 mg/m ³	RSST
n-Propanol		STEL	250 ppm	614 mg/m ³	RSST (Pc)
		TWA (8h)	100 ppm		ACGIH , BC, ON
			200 ppm	492 mg/m ³	RSST (Pc)
Acetone		STEL	500 ppm		ACGIH , BC, ON
			1000 ppm	2380 mg/m ³	RSST
		TWA (8h)	250 ppm		ACGIH , BC, ON
			500 ppm	1190 mg/m ³	RSST
Propylene glycol monome	ethyl ether acetate	STEL	75 ppm		BC
		TWA (8h)	50 ppm		BC , US AIHA
			50 ppm	270 mg/m ³	ON
Isopropyl alcohol		STEL	400 ppm		ACGIH , BC, ON
			500 ppm	1230 mg/m ³	RSST
		TWA (8h)	200 ppm		ACGIH , BC, ON
			400 ppm	983 mg/m ³	RSST
Isobutyl alcohol		TWA (8h)	50 ppm		ACGIH , BC, ON
			50 ppm	152 mg/m³	RSST
n-Butyl Alcohol		Ceiling	30 ppm		BC
			50 ppm	152 mg/m ³	RSST (Pc, RP)
		TWA (8h)	15 ppm		BC
			20 ppm		ACGIH , ON
Xylene		STEL	150 ppm		ACGIH , BC, ON
			150 ppm	651 mg/m ³	RSST
		TWA (8h)	100 ppm		ACGIH , BC, ON
			100 ppm	434 mg/m ³	RSST
Ethylbenzene		STEL	125 ppm	543 mg/m ³	RSST

	TWA (8h)	20 ppm 100 ppm	434 mg/m ³	ACGIH , BC, ON RSST
Appropriate engineering controls	Provide sufficient mechanical ventila concentrations of vapours, mists, ae limits.			•
Individual protection m	easures			
Еуе	Wear chemical splash goggles.			
Hands	Wear nitrile or neoprene gloves. Bef with tears, pinholes, or signs of wear water before removing them. After u	. Gloves must on	ly be worn on clean	hands. Wash gloves with
Skin	Personal protective equipment for th and the risks involved. Wear normal code. If necessary, wear an apron of	work clothing cov	ering arms and legs	
Respiratory	Respiratory protection is not required respirator, it is necessary to follow a equipment (RPE) must be selected, and standard 29 CFR 1910.134 (OS NIOSH/MSHA. In case of insufficient protection factor (APF) up to 10 time vapour cartridges fitted with P100 filt a full face respirator mask with organ	respiratory protect fitted, maintained HA), ANSI Z88.2 t ventilation or in c s the exposure lir ers. For an APF t	tion program. More and inspected in a or CSA Z 94.11 (Ca confined or enclosed nit, wear a half mas until maximum 100 t	over, respiratory protection coordance with regulations anada) and approved by d space and for an assigned k respirator with organic imes of exposure limit, wear
Feet	Wear rubber boots to clean up a spil	I.		

9. Physical and chemical properties				
Physical state	Liquid	Flammability	Flammable	
Colour	Clear or coloured	Flammability limits	N/Av.	
Odour	Solvent	Flash point	0°C (32°F)	
Odour threshold	N/Av.	Auto-ignition temperature	170°C (338°F)	
рН	N/Ap. Sensibility to Yes electrostatic charges		Yes	
Melting point	N/Av.	I/Av. Sensibility to sparks and/or friction		
Freezing point	N/Av. Vapour density		>1 (Air = 1)	
Boiling point	56 to 241°C (132.8 to 465.8°F)	Relative density	0.95 to 0.96 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	64.4%	Molecular mass	N/Ap.	
N/Av.: Not Available N/Ap.: Not Applicable Und.: Undetermined N/E: Not Established				

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 contact with incompatible materials.		
Incompatible materials	Strong oxidizing agents (e.g. chlorine, fluorine, nitric acid, perchloric acid, peroxides, nitrates, chlorates, chromates, permanganates and perchlorates), strong acids (e.g. hydrochloric acid, sulfuric acid, phosphoric acid), strong bases (e.g. hydroxides, solutions of ammonia, amines, carbonates).		
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.		

Numerical measures of	Butyl acetate (normal)	-		Rat	LD50
toxicity			>32.5 mg/l/4h		LC50
loxiony			>17600 mg/kg		
	n-Propanol	•	1870 mg/kg	Rat	LD50
			5467 mg/kg	Mouse	
			48 mg/l/4h	Mouse	
			4060 mg/kg	Rabbit	
	Nitrocellulose	•	>5000 mg/kg	Rat	LD50
	Acetone	-	5800 mg/kg		LD50
			71.4 mg/l/4h	Rat	LC50
			15800 mg/kg	Rabbit	
	Propylene glycol monomethyl ether acetate	-	8532 mg/kg		LD50
			28.7 mg/l/4h	Rat	LC50
			>5000 mg/kg	Rabbit	
	Urea, polymer with formaldehyde, isobutylated	-		Rat	LD50
			>5000 mg/kg	Rabbit	
	Isopropyl alcohol	•	5045 mg/kg	Rat	LD50
			3600 mg/kg	Mouse	
			66.1 mg/l/4h	Rat	LC50
			6280 mg/kg	Rat	LD50
	Bis(2-Ethylhexyl) adipate	Ingestion	9100 mg/kg	Rat	LD50
		Inhalation	>5.7 mg/l/4h	Rat	LC50
		Skin	17297 mg/kg	Rabbit	LD50
	Isobutyl alcohol	Ingestion	2460 mg/kg	Rat	LD50
		Inhalation	19.2 mg/l/4h	Rat	LC50
		Skin	3400 mg/kg	Rabbit	LD50
	n-Butyl Alcohol	Ingestion	790 mg/kg	Rat	LD50
		Inhalation	24.2 mg/l/4h	Rat	LC50
		Skin	3400 mg/kg	Rabbit	LD50
	Ethylbenzene	Ingestion	3500 mg/kg	Rat	LD50
		Inhalation	17.3 mg/l/4h	Rat	LC50
		Skin	15380 mg/kg	Rabbit	LD50
	Xylene	Ingestion	3523 mg/kg	Rat	LD50
		-	27.6 mg/l/4h	Rat	LC50
			3200 mg/kg	Rabbit	LD50

Skin, eyes, inhalation, ingestion.

Likely routes of exposure		
Delayed, immediate and chronic effects	Eye contact	May cause severe eye irritation or eye damage. The single application of n-propanol (0.1 ml) causes severe conjunctivitis, with attack of the iris, corneal opacity and ulceration. Causes severe irritation reversible within 21 days (OECD 405). 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. Isobutyl alcohol is a severe eye irritant in rabbits (OECD 405). Eye Irritation/Corrosion, Rabbit (OECD TG 405): tests performed with the other ingredients of this mixture gave not irritating to irritating results.
	Skin contact	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.
	Inhalation	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. Many reports with painters have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.
	Ingestion	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.
	Respiratory or skin sensitization	Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.
	IARC/NTP	Common name IARC NTP
	Classification	Ethylbenzene 2B - IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic. NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.
	Carcinogenicity	Contains a substance that can cause cancer based on animal data. The risk of cancer depends on duration and level of exposure. 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)).
	Mutagenicity	Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.
	Reproductive toxicity	Xylene overexposure may affect fetal development in laboratory animals by inhalation during pregnancy. Paint has not been proven to be all teratogenic. However, exposures to harmful chemicals during pregnancy have been linked with an increased risk for spontaneous abortion, low birth weight, or preterm birth.
	Specific target organ toxicity - single exposure	Central nervous system, respiratory system.
	Specific target organ toxicity - repeated exposure	No target organ is listed.
Interactive effects	No information availa	ble for this product.
Other information	mg/kg. The acute tox	ite toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 icity estimate (ATE) by inhalation of the mixture was calculated to be greater than 20 es are not classified according to WHMIS 2015 and OSHA HCS 2012.

12. Ecological information

Ecological toxicity	Fish - Oncorhynchus mykiss - Rainbow trout Aquatic Invertebrate - Daphnia magna Fish - Fathead minnow, Pimephales promelas - fresh water Aquatic Invertebrate - Crustaceans, Daphnia Magna Plant - Lettuce seed germination, Lactuca Sativa Algea, Pseudokirchneriella subcapitata Fish - Pimephales promelas [static] Aquatic Invertebrate - Daphnia magna Algea - Desmodesmus subspicatus Fish - Lepomis macrochirus [static] Aquatic Invertebrate - Daphnia magna Algea - Desmodesmus subspicatus Fish - Lepomis macrochirus [static] Aquatic Invertebrate - Daphnia magna Algea - Desmodesmus subspicatus Fish - Pimephales promelas [flow-through] Aquatic Invertebrate - Daphnia magna Algea, Desmodesmus subspicatus Fish - Pimephales promelas - Fresh water Aquatic Invertebrate - Daphnia magna Fish - Oncorhynchus mykiss - Rainbow trout Aquatic Invertebrate - Daphnia magna Fish - Pimephales promelas [flow-through] Aquatic Invertebrate - Daphnia magna	EC50 12600 LC50 9640 EC50 3644 EC50 2100 EC50 579 n LC50 1376 EC50 1983 EC50 >500 LC50 0.48-0 EC50 >1.6 n EC50 44 mg EC50 44 mg EC50 1370- EC50 1300 LC50 13.5- EC50 3.82 n LC50 3642 LC50 161 n	mg/L; 96 h (Acetone) 0-12700 mg/L; 48 h (Acetone) mg/L; 96 h (CAS no 67-63-0) mg/L; 48 h (CAS no 67-63-0) mg/L; 72 h (CAS no 67-63-0) ng/L; 96 h (Nitrocellulose) mg/L; 96 h (n-Butyl alcohol) mg/L; 96 h (n-Butyl alcohol) mg/L; 72 h (n-Butyl alcohol) 0.85 mg/L; 96 h (CAS no 103-23-1) mg/L; 48 h (CAS no 103-23-1) mg/L; 72 h (CAS no 103-23-1) g/L; 96h (Butyl acetate) g/L; 96h (Butyl acetate) ng/L; 72 h (Isobutyl alcohol) mg/L; 48 h (n-Butyl acetate) ng/L; 96 h (Isobutyl alcohol) mg/L; 48 h (Isobutyl alcohol) mg/L; 48 h (Isobutyl alcohol) mg/L; 48 h (Xylene) mg/L; 48 h (Xylene) mg/L; 96 h (n-Propanol) mg/L; 48 h (CAS no 108-65-6) mg/L; 48 h (CAS no 108-65-6)			
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Persistence	Contains an or many ingredients that may be persistent in a	juatic enviro	nment.			
Degradability	N-Butyl acetate is readily biodegradable (96% in 28 days) OECD Guideline 301D. n-Propanol is readily biodegradable, 75% in 20 days (OECD 301F). Degradation of Nitrocellulose involves complex dissociation into a wide variety of products. Since it is not soluble in water, the biodegradable at 91% in 28 days (OECD 301B). Propylene glycol monomethyl ether acetate is readily biodegradable (83% in 10 days) OECD Guideline 301 E. Urea, polymer with formaldehyde, isobutylated (CAS no 68002-18-6) is not readily biodegradable (61% in 28 days). 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 ¹ / ₂ of 18 to 25 hours. Bis(2-Ethylhexyl) adipate is readily biodegradable >90% in 28 days (OECD Guideline 301F). n-Butyl Alcohol is readily biodegradable. Degradation by Biochemical Oxygen Demand BOD (O2 consumption) was reported as 92% after 20 days. 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).					
Bioaccumulative potential	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). The Log Kow values <0.4 and bioconcentration factor (BCF) values <1 for n-propanol show no potential to bioaccumulate (IUCLID). Acetone has a Bioconcentration Factor (BCF) of 0.65 and a partition factor Log Kow of -0.24, indicating no bioaccumulation. Propylene glycol monomethyl ether acetate is not expected to bioaccumulate based on a low partition coefficient (Log Kow 0.36). The Log Kow value <0.4 and bioconcentration factor (BCF) value <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) of 27, indicating no bioaccumulation. n-Butyl alcohol has a Bioconcentration Factor (BCF) value is from 0.8 to 1, indicating its potential to bioaccumulate is very low. Isobutyl alcohol has a low potential to 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).					
Mobility in soil	N-Butyl acetate will be distributed to air (93.4%), water (5.78 Koc value of n-butyl acetate can be estimated to be 19, sug mobility in soil. n-Propanol is soluble in water and will quickl	%), soil (0.79 esting that i	92%), and sediment (<0.1%). The t is expected to have very high			

	the ground. 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. Propylene glycol monomethyl ether acetate is soluble in water and and should have a high mobility in soil. It will be distributed to air (10.22%), water (89.73%), soil (0.03%), and sediment (0.02%). 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. 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).
Other adverse effects	This chemical does not deplete the ozone layer.

13. Disposal considerations

Container

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, dyes, shellacs, varnishes, paint solvents and thinners, can be reprocessed where 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 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	Ι					
IMO/IMDG - Internationa	I Maritime Transport					
Classification	UN 1263. PAINT. Class 3, PG II. Emergency schedules (EmS-No) F-E, S-E					
IATA - International Air	Fransport Association					
Classification	UN 1263. PAINT. Class 3, PG II.					
	re provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper aging. 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
Butyl acetate (normal)	123-86-4	Х	Х		Х
n-Propanol	71-23-8	Х	Х		Х
Nitrocellulose	9004-70-0		Х		
Acetone	67-64-1		Х		
Propylene glycol monomethyl ether acetate	108-65-6	x	x		х
Urea, polymer with formaldehyde, isobutylated	68002-18-6		x		
Isopropyl alcohol	67-63-0	Х	Х		Х
Bis(2-Ethylhexyl) adipat	e 103-23-1		Х		Х
Isobutyl alcohol	78-83-1	Х	Х		Х
n-Butyl Alcohol	71-36-3	Х	Х		Х
Ethylbenzene	100-41-4	Х	Х		Х
Xylene	1330-20-7	Х	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	
n-Propanol	71-23-8	Х							Х	
Nitrocellulose	9004-70-0	Х								
Acetone	67-64-1	Х	Х			Х				
Propylene glycol monomethyl ether acetate	108-65-6	Х								
Urea, polymer with formaldehyde, isobutylated	68002-18-6	Х								
Isopropyl alcohol	67-63-0	Х		Х						
Bis(2-Ethylhexyl) adipate	103-23-1	Х								
Isobutyl alcohol	78-83-1	Х	Х							
n-Butyl Alcohol	71-36-3	Х	Х	Х					Х	
Ethylbenzene	100-41-4	Х	Х	Х		Х	Х		Х	Х
Xylene	1330-20-7	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

Common name	CAS	Cancer	Reproductive and Developmental Toxicity
Ethylbenzene	100-41-4	Х	
Cla Cla Cla 3 3) other toxic effects er toxic effects

16. Other information

Date (YYYY-MM-DD)	GEMINI INDUSTRIES, INC. 2016-11-22
Version	01
Other information	 The GHS hazards classification in this SDS is from the original SDS provided by 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 sécurit 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.edc.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 Industrial Hygiene Association MHIS: 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

To the best of our knowledge, the information contained herein is accurate. However, neither Pri¿½ventis 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.