

Safety Data Sheet #500 LACQUER THINNER



1. Identification					
Product identifier	#500 LACQUER THINNER				
Product code	SOL-0500				
Other means of identification	N/Av.				
Recommended use of the chemical and restrictions on use	Paint thinner.				
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	INFOTRAC 800-535-5053 Outside USA, Call Collect 1-352-323-3500 (French & English) 24-hour PPG Architectural Coatings Canada Inc. 1-450-442-7999, 8h00-17h00 HAZMAT Response and MSDS help: EMI 800-510-8510				

2. Hazard identification

Summary

DANGER! FLAMABLE LIQUID! VERY TOXIC! Skin, eyes and respiratory tracts irritant. Harmful by inhalation or if absorbed through the skin. May cause central nervous system effects. Contains a substance that can cause target organ damage, according to data obtained on animals. Contains a substance that can cause cancer based on animal data. Reproductive effects in animal. 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. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet. Keep containers tightly closed when not in use. After use, wash hands with soap and water. Wash contaminated clothing before reuse.

WHMIS 2015/OSHA HCS 2012/GHS

Flammable liquids (Category 2)

Acute toxicity, inhalation (Category 4)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Carcinogenicity (Category 2)

Reproductive toxicity (Category 2)

Specific target organ toxicity, single exposure (Category 1)

Specific target organ toxicity, single exposure, Narcotic effects (Category 3)

Specific target organ toxicity, repeated exposure (Category 2)

Aspiration hazard (Category 1)

DANGER

H225: Highly flammable liquid and vapour

H370: Causes damage to organs

H304: May be fatal if swallowed and enters airways

H332: Harmful if inhaled

H319: Causes serious eye irritation

H315: Causes skin irritation

H336: May cause drowsiness or dizziness

H351: Suspected of causing cancer

H361D: Suspected of damaging the unborn child

H373: May cause damage to organs through prolonged or repeated exposure

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.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P260: Do not breathe mist, vapours and spray.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P281: Use personal protective equipment as required.

P301+310+331: IF SWALLOWED: Immediately call a POISON CENTER or a physician. Do NOT induce vomiting.

P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water and soap or take a shower if necessary.

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 chemical foam, dry chemical or carbon dioxide to extinguish.

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

P501: Dispose of contents and container to an approved waste disposal plant.

3. Composition/information on ingredients				
Common name	CAS	Weight % content		
Toluene	108-88-3	40 - 70 %		
Ethyl Acetate	141-78-6	10 - 30 %		
Distillates (petroleum), hydrotreated middle, intermediate boiling	68410-96-8	7 - 13 %		
Acetone	67-64-1	7 - 13 %		
Xylene	1330-20-7	5 - 10 %		
Methanol	67-56-1	1 - 5 %		
2-Butoxyethanol	111-76-2	1 - 5 %		
Ethylbenzene	100-41-4	1 - 5 %		

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 plenty of water. Remove contact lenses. Flush with water for at least 15 minutes. Hold eyelids apart to rinse properly. Seek medical attention immediately.			
Ingestion				

	DO NOT induce vomiting, unless recommended by medical personnel. If victim is conscious wash out mouth with water and give 1-2 glasses of water to drink. Never give anything by mouth if victim is unconscious or convulsing. 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	No information available.
Notes to the physician	Treat symptomatically.

5. Fire-fighting measures			
Suitable extinguishing media	dried powder, carbon dioxide (CO2), alcohol resistant foam, Do not use a heavy water jet.		
Specific hazards arising from the chemical	NFPA: Class IB Flammable liquid. 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	Water stream can scatter and spread fire. If water is used, fog nozzles are preferable. Use water spray to cool fire-exposed containers.		

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. Stay against the wind spill. Make sure you have a fire extinguisher near you. Stop leak, if it's possible to do so without risk. Use non-sparking and antistatic tools. Absorb with inert material (soil, sand, vermiculite) or wipe up or scrape up and place in an appropriate waste disposal container clearly identified. Dispose via a licensed waste disposal contractor. Finish cleaning the contaminated surface by rinsing with soapy water.		

7. Handling and storage Precautions for safe Keep away from heat, sparks and open flame. Turn off all pilot lights, flames, stoves, heaters, electric handling 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. Avoid prolonged or repeated breathing of vapour or mists. Avoid contact with skin, eyes and clothing. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet. 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. Storage and handling should follow the NFPA 30 Flammable and/or Combustible Liquids Code and Conditions for safe the National Fire Code of Canada (NFCC). NFPA: Class IB Flammable liquid. Store tightly closed and storage, including any

-	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).
Storage temperature	10 to 25°C (50 to 77°F)

8. Exposure con	trols/personal protection				
Immediately Dangerous to Life or Health	Toluene: 500 ppm. Methanol: 6000 ppm. Ethyl acetate: 2000 ppm. Acetone: 2500 ppm. Xylenes: 900 ppm. 2-Butoxyethanol: 700 ppm. Ethylbenzene: 800 ppm.				
Toluene		TWA (8h)	20 ppm		ACGIH , BC, ON
			50 ppm	188 mg/m ³	AB , RSST
Ethyl Acetate		TWA (8h)	150 ppm		BC
			400 ppm		ACGIH, ON
			400 ppm	1440 mg/m ³	AB , RSST
Acetone		STEL	500 ppm		ACGIH , BC
			750 ppm		AB , ON
			1000 ppm	2380 mg/m ³	RSST
		TWA (8h)	250 ppm		ACGIH, BC
			500 ppm		AB , ON
			500 ppm	1190 mg/m ³	RSST
Distillates (petroleum), hy	drotreated middle, intermediate boiling	STEL		1800 mg/m ³	NIOSH
		TWA (8h)		350 mg/m ³	NIOSH
Xylene		STEL	150 ppm	_	ACGIH , BC, ON
			150 ppm	651 mg/m ³	AB , RSST
		TWA (8h)	100 ppm		ACGIH, BC, ON
			100 ppm	434 mg/m ³	AB , RSST
Ethylbenzene		STEL	125 ppm	543 mg/m ³	AB , RSST
		TWA (8h)	20 ppm	404 / 2	ACGIH, BC, ON
0 D. t		T) A (A (OL)	100 ppm	434 mg/m ³	AB , RSST
2-Butoxyethanol		TWA (8h)	5 ppm	24 mg/m ³	NIOSH
			20 ppm	07 / 3	ACGIH, BC, ON
Mathanal		CTEL	20 ppm	97 mg/m ³	AB, RSST
Methanol		STEL	250 ppm	220 ma/m³	ACGIH , BC, ON
		TWA (8h)	250 ppm 200 ppm	328 mg/m ³	AB , RSST ACGIH , BC, ON
		TWA (OII)	200 ppm	262 mg/m ³	AB, RSST
Appropriate engineering controls Provide sufficient mechanical ventilation (general or local exhaust) to keep the airborne concentrations of vapours, mists, aerosols or dust below their respective occupational exposure limits.					
Individual protection me	easures				
Eye	Wear safety glasses. If there is a risk of	of contact with	n eyes, wear	chemical splash	goggles.
Hands	In case of prolonged contact wear neoprene or nitrile 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.				
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear a long-sleeved shirt. Wear synthetic apron, if necessary, to prevent				

	repeated or prolonged contact with skin.
Respiratory	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 enclosed area until maximum 10 times of exposure limit, wear half mask respirator with organic vapors cartridges and fitted with a particulate filter. Use a dust particle mask when sanding.
Feet	Wear rubber boots to clean up a spill.

9. Physical and chemical properties					
Physical state	Liquid	Flammability	Flammable.		
Colour	Clear	Flammability limits	1.2 to 36%		
Odour	Solvent odor	Flash point	-17.8°C (0°F)		
Odour threshold	N/Av.	Auto-ignition temperature	N/Av.		
рН	N/Ap.	Sensibility to electrostatic charges	Yes		
Melting point	N/Av.	Sensibility to sparks and/or friction	N.Av.		
Freezing point	N/Av.	Vapour density	>1 (Air = 1)		
Boiling point	56.1°C (133°F)	Relative density	0.854 kg/L (Water = 1)		
Solubility	No	Partition coefficient n-octanol/water	N/Av.		
Evaporation rate	> Butyl Acetate	Decomposition temperature	N/Av.		
Vapour pressure	N/Av.	Viscosity	N/Av.		
Percent Volatile	100%	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 oxidants, strong bases, mineral acids, strong acids.
Hazardous decomposition products	In combustion: nitrogen oxides, carbon oxides (CO, CO2).

11. Toxicolo	ogical informa	tion			
Numerical measures of	Toluene			LD50 LC50	
toxicity	Ethyl Acetate		Skin 12600 mg/kg Rabbit	LD50	
	Acetone		Inhalation 71.4 mg/l/4h Rat	LD50 LC50	
	Distillates (petroleur	m), hydrotreated middle, intermediate boiling	Skin 15800 mg/kg Rabbit Ingestion >2000 mg/kg Rat Skin >2000 mg/kg Rabbit	LD50	
	Xylene		Ingestion 3523 mg/kg Rat Inhalation 27.6 mg/l/4h Rat	LD50 LC50	
	2-Butoxyethanol		5 5	LD50 LC50	
	Ethylbenzene		Ingestion 3500 mg/kg Rat	LD50 LC50	
	Methanol		Ingestion 183 mg/kg Human 5600 mg/kg Rat	LD50	
			Inhalation 83.8 mg/l/4h Rat Skin 15800 mg/kg Rabbit	LC50 LD50	
Likely routes of exposure	Skin, eyes, inhalation	on, ingestion.			
Delayed, immediate and chronic effects	Eye contact Skin contact	May cause eye irritation. May cause slight irritation of the skin. Prolonged and repeated contact may cause drying and cracking of the skin. Widespread contact with skin for several hours can cause harmful amounts of material to be absorbed. Excessive inhalation is harmful. May cause slight upper respiratory tract irritation. H concentrations may cause central nervous system depression characterized by headache, dizziness, nausea, fatigue, drowsiness, unconsciousness. asphyxia. The severity of symptoms may vary depending on exposure conditions. Prolonged exposure may cause damage to liver, kidneys, lungs and blood forming organs.			
	Inhalation				
	Ingestion	May cause gastro-intestinal irritation with n inhaled into the lungs (ingestion/vomiting). organ damage, according to data obtained	ausea and vomiting. Harmful or fa Contains a substance that can cau	tal if	
	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 an ingredient possibly carcinogenic to humans (Group 2B, IARC). Ethylbenzene (CAS no. 100-41-4). The risk of cancer depends on duration and level of exposure.			
	Teratogenicity	This material is not known to cause teratog	enic effect.		
	Mutagenicity	This material is not known to cause mutage			
	Reproductive toxicity Immunotoxicity	Toluene present a risk of toxicity on develor epidemiological study (1992) has been dor factory. The first group was exposed to am and the second at concentrations from 0 to demonstrated a higher spontaneous abortic higher concentrations than those of little or may affect fetal development in laboratory. No information available.	the with women exposed only to tolubient concentrations from 50 to 15 25 ppm. Comparison with a control ons rates significantly in women exposure group. Xylene overe:	0 ppm ol group oposed to oposure	
	minumotoxicity	NO IIIIOITTAIIOIT AVAIIADIC.			

Interactive effects	No information available for this product.
Other information	Target organs: central nervous system, kidneys, liver, lungs. blood forming organs. The acute toxicity estimate (ATE) by inhalation of the mixture was calculated to be greater than 10 mg/L/4h but lower than 20 mg/L/4h. This value is classified according to GHS: Acute toxicity, inhalation (Category 4). The oral and skin acute toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 mg/kg. These values are not classified according to WHMIS 2015 and OSHA HCS 2012.

12. Ecological information		
Ecological toxicity	N/Av. LC50 N/Av.	
Persistence	No information available for this product.	
Degradability	No information available for this product.	
Bioaccumulative potential	No information available for this product.	
Mobility in soil	No information available for this product.	
Other adverse effects	No information available for this product.	

13. Disposal considerations

Container



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 information			
UN Number	UN 1263		
UN Proper Shipping Name	PAINT RELATED MATERIAL		
Environmental hazards	This material is not listed as a marine pollutant.		
Special precautions for user	No information available.		
TDG - Transportation of Dangerous Goods (Canada)			
Transport hazard class(es)	Class 3		
Packing group	II		
IMO/IMDG - International Maritime Transport			
Classification	Regulated UN 1263. Class 3, PG II.		
IATA - International Air Transport Association			
Classification	Regulated UN 1263. Class 3, PG II.		

15. Regulatory information

Other regulations

UNITED STATE OF AMERICA:

- Toxic Substance Control Act (TSCA):

All ingredients are listed in the TSCA Inventory.

- EPCRA Section 313 Toxic Chemicals:

Toluene (CAS no. 108-88-3).

Methanol (CAS no. 67-56-1).

Xylenes (CAS no. 1330-20-7).

Ethylbenzene (CAS no. 100-41-4).

- California Proposition 65:

Contains ingredients that can cause cancer according to the state of California.

Ethylbenzene (CAS no. 100-41-4).

This product contains chemicals known to the State of California to cause birth defects or other reproductive harm.

Toluene (CAS no. 108-88-3).

CANADA:

- Canada DSL and NDSL:

All ingredients are listed in the Domestic Substances List (DSL).

- Canadian National Pollutant Release Inventory Substances (NPRI):

Toluene (CAS no. 108-88-3).

Ethyl acetate (CAS no. 141-78-6).

Methanol (CAS no. 67-56-1).

Ethylbenzene (CAS no. 100-41-4).

2-Butoxyethanol (CAS no. 111-76-2).

Xylenes (CAS no. 1330-20-7).

WHMIS 1988







B2 D1A D2A D2B Class B2 : Flammable Liquid

Class D1A: Very toxic material causing immediate and serious toxic effects

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

HMIS







16. Other information

Date	GEMINI INDUSTRIES, INC. 2014-03-25
(YYYY-MM-DD)	

Version

01

Other information

REFERENCES:

- 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

- 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
- IUCLID Chemical Dataset, European Chemical Substances Information System (ESIS), Joint Research Centre, http://esis.jrc.ec.europa.eu
- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, http://hazmap.nlm.nih.gov/index.php

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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