

Safety Data Sheet CLEAR H/S W/B MODIFIED URETHANE SATIN



1. Identification					
Product identifier	CLEAR H/S W/B MODIFIED URETHANE SATIN				
Product code	WB-0230				
Other means of identification	None.				
Recommended use of the chemical and restrictions on use	A protective and/or decorative finish or accompanying paint product.				
Manufacturer	GEMINI INDUSTRIES, INC. 2300 Holloway Drive El Reno, OK 73036 Tel. 1-800-262-5710 Fax 1-405-262-9310 www.geminicoatings.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

Do not breathe vapours, mists or aerosols. Avoid contact with skin, eyes and clothing. 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





Skin irritation (Category 2)

Eye irritation (Category 2B)

Specific target organ toxicity, repeated exposure (Category 1)

WARNING

H372: Causes damage to lungs through prolonged or repeated exposure by inhalation

H315: Causes skin irritation

H320: Causes eye irritation

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.

P280: Wear protective gloves, protective clothing and eye protection.

P302+352: IF ON SKIN: Wash with soap and water.

P332+313: If skin irritation occurs: Get medical advice or attention.

P314: Get Medical advice/attention if you feel unwell.

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

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

P321: Specific treatment (see on this label).

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

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

3. Composition/information on ingredients					
Common name CAS Weight % content					
Propylene glycol monomethyl ether acetate	108-65-6	3 - 5 %			
Stoddard solvent (Mineral Spirits)	8052-41-3	3 - 4 %			
2-Butoxyethanol	111-76-2	0.5 - 2 %			

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. Remove contaminated clothing and wash before reuse. If a problem develops or persists, seek medical attention.		
Eye contact	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.		
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 small amounts 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 dry skin and irritation. May cause irritation to skin and eyes.		
Notes to the physician	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. Seek medical attention or contact a Poison Centre if large quantities are ingested or inhaled.		

5. Fire-fighting measures				
Suitable extinguishing media	Dry chemicals, alcohol resistant foam, carbon dioxide (CO2). If water is used, fog nozzles are preferable.			
Specific hazards arising from the chemical	This product is an aqueous solution which does not support combustion unless the water has been evaporated. Do not apply to hot surfaces. 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. 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

Ventilate the area well. Stop leak, if it's possible to do so without risk. Remove containers from the area of the spill, if possible without risk. 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	7. Handling and storage				
Precautions for safe handling	Use only in well ventilated area. Avoid high temperatures and intense heat. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. Avoid prolonged or repeated breathing of vapour or mists. Avoid contact with skin, eyes and clothing. Do not ingest. 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. Keep containers tightly closed when not used. Since empty containers retain product residues (vapour, liquid), all hazard precautions given in this sheet must be observed. Do not reuse empty container.				
Conditions for safe storage, including any incompatibilities	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. Keep away from direct sunlight and heat. Store away from oxidizing materials and incompatible materials (see section 10). Keep from freezing.				
Storage temperature	10 to 35°C (50 to 95°F)				

Immediately Dangerous to Life or Health	Stoddard solvent (N 2-Butoxyethanol: 70		0000 mg/m3.		
Stoddard solvent (Minera	ıl Spirits)	STEL		580 mg/m ³	BC
		TWA (8h)		290 mg/m ³	BC
			100 ppm	525 mg/m ³	ACGIH, ON, RSST
Propylene glycol monom	ethyl ether acetate	STEL	75 ppm		BC
		TWA (8h)	50 ppm		BC , US AIHA
			50 ppm	270 mg/m ³	ON
2-Butoxyethanol		TWA (8h)	20 ppm		ACGIH, BC, ON
•		, ,	20 ppm	97 mg/m ³	RSST
	limits.	apours, mists, ae			to keep the airborne e occupational exposure
	limits.				
Individual protection me	Wear chemical spla Wear nitrile or neop	ush goggles. orene gloves. Befo , or signs of wear ing them. After us	ore using, user so Gloves must o	should confirm impends be wash	
	Wear chemical splate Wear nitrile or neop with tears, pinholes water before remov Disposable nitrile grand the risks involved	orene gloves. Beforene gloves. Beforene gloves. After us loves can also be equipment for the ded. Wear normal	ore using, user so Gloves must o using gloves, han used, but discase body should bowork clothing co	should confirm impends be worn on clear dater single use. The selected based opering arms and le	e occupational exposure ermeability. Discard gloves an hands. Wash gloves with

	cartridges.
Feet	Wear rubber boots to clean up a spill.

9. Physical and chemical properties					
Physical state	Liquid	Flammability	Non-flammable.		
Colour	Clear	Flammability limits	N/Av.		
Odour		Flash point	>98.9°C (210°F) Tagliabue closed cup		
Odour threshold	N/Av.	Auto-ignition temperature	N/Av.		
рН	N/Av.	Sensibility to electrostatic charges	N.Av.		
Melting point	N/Av.	Sensibility to sparks and/or friction	N.Av.		
Freezing point	N/Av.	Vapour density	4.6 (Air = 1)		
Boiling point	56.1°C (133°F)	Relative density	1.04 kg/L (Water = 1)		
Solubility	Soluble in water.	Partition coefficient n-octanol/water	N/Av.		
Evaporation rate	N/Av.	Decomposition temperature	N/Av.		
Vapour pressure	0.133kPa (1 mm Hg)	Viscosity	N/Av.		
Percent Volatile	66.3%	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 contact with incompatible materials. Avoid high temperatures and intense heat.
Incompatible materials	Strong oxidants, strong bases, strong acids.
Hazardous decomposition products	No known decomposition products.

11. Toxicological information							
Numerical measures of toxicity	Propylene glycol monomethyl ether acetate Ingestion 8532 mg/kg Rat LD50 Inhalation 28.7 mg/l/4h Rat LC50 Skin >5000 mg/kg Rabbit LD50					LC50	
	Stoddard solvent (Mi	Ingestion	>5000 mg/kg >5000 mg/kg >12 mg/l/4h >3000 mg/kg	Rat Rat	LD50 LC50		
	2-Butoxyethanol		Ingestion	560 mg/kg 2.21 mg/l/4h 220 mg/kg	Rat Rat	LD50 LC50	
Likely routes of exposure	Skin 220 mg/kg Rabbit LD50 Skin, eyes, inhalation, ingestion.						
Delayed, immediate and chronic effects	Eye contact					/I ether acetate is not irritating to in cause eye irritation (rabbits,	
	Skin contact	,					
	Inhalation	May cause respiratory tract irritation. Excessive inhalation is harmful. High concentrations may cause central nervous system depression characterized by headache, dizziness, vertigo, nausea, drowsiness and fatigue. The severity of symptoms may vary depending on exposure conditions. Numerous studies on human, especially from the monitoring of painters, suggest that long-term occupational exposure to white spirit (all types) cause chronic toxic encephalopathy (adverse central nervous system effects).					
	Ingestion	May cause gastro-inte				vomiting. 0.1% of this product are skin or	
	sensitization	respiratory sensitizers		iter triair or eq	uai to t	7.170 of this product are skill of	
	IARC/NTP Classification	No ingredients listed.					
	Carcinogenicity						
	Mutagenicity	Ingredients in this prod known to cause mutag	•	-	ater tha	an or equal to 0.1% are not	
	Reproductive toxicity	were severely toxic to	thanol may have negative effects on reproduction and fertility at doses which rely toxic to the animals (TOXNET). Ingredients in this product present at after than or equal to 0.1% are not known to cause effects on reproduction.				
	Specific target organ toxicity - single exposure	No target organ is liste					
	Specific target organ toxicity - repeated exposure	Central nervous system	m.				
Interactive effects	No information available for this product.						
Other information	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. 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	Fish - Oncorhynchus mykiss - Rainbow trout Aquatic invertebrates - Daphnia magna Fish - Branchydanio Renio - fresh water Aquatic Invertebrate - Crustaceans, Daphnia Magna Algea, Pseudokirchneriella subcapitata Aquatic Invertebrate - Daphnia magna Algea, Pseudokirchneriella subcapitata Fish - Oncorhynchus mykiss - Rainbow trout Aquatic Invertebrate - Daphnia magna	LC50 1474 mg/L; 96 h (2-butoxyethanol) EC50 1550 mg/L; 48 h (2-butoxyethanol) CESO >100mg/L; 21 d (2-butoxyethanol) CESO 100mg/L; 21 d (2-butoxyethanol) EC50 1840mg/L; 72h (2-butoxyethanol) EC50 0.42-2.3 mg/L; 48 h (Stoddard solvent) EC50 1.5mg/L; 72 h (Stoddard solvent) LC50 100-180 mg/L; 96 h (CAS no 108-65-6) EC50 >500 mg/L; 48 h (CAS no 108-65-6)					
Persistence	The product contains components that may persist in the environment.						
Degradability	Stoddard solvent (Mineral Spirits) is not rapidly degrading, according to Biochemical Oxygen Demand (BOD) of 12-13% (EHC187, 1996). Propylene glycol monomethyl ether acetate is readily biodegradable (83% in 10 days) OECD Guideline 301 E. 2-Butoxyethanol is readily biodegradable 90.4% in 28 days (OECD Guideline 301B).						
Bioaccumulative potential	Propylene glycol monomethyl ether acetate is not expected to bioaccumulate based on a low partition coefficient (Log Kow 0.36). 2-Butoxyethanol is not expected to bioaccumulate based on a low partition coefficient (Log Kow <2).						
Mobility in soil	Propylene glycol monomethyl ether acetate is soluble in water and will be distributed to air (10.22%), water (89.73%), soil (0.03%), and sediment (0.02%). The estimated Koc value of 0.83 suggests that 2-Butoxyethanol is expected to have high 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 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.

14. Transport information					
UN Number	UN 3082				
UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
Environmental hazards	Contains an ingredient which is a marine pollutant.				
Special precautions for user	No information available.				
TDG - Transportation of Dangerous Goods (Canada)					
Transport hazard class(es)	Class 9				
Packing group	III				

IMO/IMDG - International Maritime Transport Classification Regulated UN 3082. Environmentally Hazardous Substance, Liquid, N.O.S. Class 9, PG III. Emergency schedules (EmS-No) F-A, S-F IATA - International Air Transport Association

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

Classification

Common name	CAS	CEPA	DSL	NDSL	NPRI
Propylene glycol monomethyl ether acetate	108-65-6	X	X		Χ
Stoddard solvent (Mineral Spirits)	8052-41-3	X	X		X
2-Butoxyethanol	111-76-2	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

Not available

UNITED STATE OF AMERICA

Common name	CAS	TSCA	CERCLA	EPCRA 313	EPCRA 302/304	112(b)	1117/h	CAA 112(r)	(:WA 311	CWA Priority
Propylene glycol monomethyl ether acetate	108-65-6	Х								
Stoddard solvent (Mineral Spirits)	8052-41-3	Х								
2-Butoxyethanol	111-76-2	X								

Other regulations







D1A D2E

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

Class D2B: Toxic material causing other toxic effects

HMIS 1 Heath 1 Flamability 0 Reactivity Protective Equipment



16. Other in	formation
Date (YYYY-MM-DD)	GEMINI INDUSTRIES, INC. 2016-01-21
Version	01
Other information	REFERENCES: - TOXNET Databases, Toxicology Data Network, NIH U.S. National Library of Medicine, http://toxnet.nlm.nih.gov/ - Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, http://hazmap.nlm.nih.gov/index.php - 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
	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 To the best of our knowledge, the information contained herein is accurate. However, neither Préventis System nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.