



Safety Data Sheet

CLEAR H/S W/B MODIFIED URETHANE FLAT



1. Identification

Product identifier	CLEAR H/S W/B MODIFIED URETHANE FLAT		
Product code	WB-0210		
Other means of identification	N.AV.		
Recommended use of the chemical and restrictions on use	PAINT.		
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	INFOTRAC 800-535-5053 Outside USA, Call Collect 1-352-323-3500 (French & English) 24-hour HAZMAT Response and MSDS help: EMI 800-510-8510		

2. Hazard identification

Summary	WARNING! TOXIC! Excessive inhalation is harmful. May cause irritation to skin, eyes and respiratory tract. 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. Do not ingest. If ingested consult physician immediately and show 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.
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WHMIS 2015/OSHA HCS 2012/GHS



Skin irritation (Category 2)
Eye irritation (Category 2)
Specific target organ toxicity, single exposure, Narcotic effects (Category 3)

WARNING

- H319: Causes serious eye irritation
- H315: Causes skin irritation
- H336: May cause drowsiness or dizziness
- P261: Avoid breathing mist, vapours and spray.
- P264: Wash skin thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- 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.
- P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- 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.

P403+233: Store in a well ventilated place. Keep container tightly closed.
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	107-98-2	3 - 7 %
Propylene glycol monomethyl ether acetate	108-65-6	3 - 7 %
2-Butoxyethanol	111-76-2	1 - 5 %
Silica Gel	112926-00-8	1 - 5 %
Sodium lauryl sulfate	151-21-3	1 - 5 %
1,2,4-Trimethylbenzene	95-63-6	1 - 5 %
Stoddard solvent (Mineral Spirits)	8052-41-3	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. Remove contaminated clothing and wash before reuse. 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. If a problem develops or persists, seek medical attention.
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, alcohol resistant foam, water spray, carbon dioxide (CO ₂),
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.

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. 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 handling	Use only in well ventilated area. Avoid prolonged or repeated breathing of vapour or mists. Avoid contact with skin, eyes and clothing. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. Avoid high temperatures and intense heat. 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	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). Protect from frost.
Storage temperature	10 to 35°C (50 to 95°F)

8. Exposure controls/personal protection

Immediately Dangerous to Life or Health	Stoddard solvent (Mineral Spirits): 20000 mg/m ³ . Silica - Amorphous, gel: 3000 mg/m ³ . 2-Butoxyethanol: 700 ppm.			
Propylene glycol monomethyl ether acetate	STEL	75 ppm		BC
	TWA (8h)	50 ppm		BC , US AIHA
		50 ppm	270 mg/m ³	ON
Propylene glycol monomethyl ether	STEL	100 ppm		ACGIH
		150 ppm		ON
		150 ppm	553 mg/m ³	RSST
	TWA (8h)	50 ppm		ACGIH
		100 ppm		ON
		100 ppm	369 mg/m ³	RSST
Stoddard solvent (Mineral Spirits)	STEL		580 mg/m ³	BC
	TWA (8h)		290 mg/m ³	BC
		100 ppm	525 mg/m ³	ACGIH , ON, RSST
		100 ppm	572 mg/m ³	AB
1,2,4-Trimethylbenzene	TWA (8h)	25 ppm		ACGIH , BC, ON
		25 ppm	123 mg/m ³	AB , RSST
2-Butoxyethanol	TWA (8h)	20 ppm		ACGIH , BC, ON
		20 ppm	97 mg/m ³	AB , RSST
Silica Gel	TWA (8h)	Respirable Dust	6 mg/m ³	RSST
		Total Dust	10 mg/m ³	ACGIH , ON

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 measures	
Eye	Wear safety glasses. If there is a risk of contact with eyes, wear chemical splash goggles.
Hands	If any risk of skin contact wear nitrile or neoprene gloves. Before using, user should confirm impermeability. Discard gloves with tears, pinholes, or signs of wear. Gloves must only be worn on clean hands. Wash gloves with water before removing them. After using gloves, hands should be washed and dried thoroughly. Disposable nitrile gloves can also be used, but discard after single use.
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. 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 confined or enclosed space and for an assigned protection factor (APF) up to 10 times of exposure limit, wear a half mask respirator with organic vapour cartridges. For an APF until maximum 100 times of exposure limit, wear a full face mask respirator with organic vapour cartridges.
Feet	Wear rubber boots to clean up a spill.

9. Physical and chemical properties

Physical state	Liquid	Flammability	Non-flammable.
Colour	Clear or coloured	Flammability limits	N/Av.
Odour	Mild acrylic odor	Flash point	>98.9°C (210°F) Tagliabue closed cup
Odour threshold	N/Av.	Auto-ignition temperature	N/Av.
pH	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 to 100°C (133 to 212°F)	Relative density	1.05 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	65.6%	Molecular mass	N/Av.
N/Av.: Not Available N/Av.: 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	In combustion: nitrogen oxides, carbon oxides (CO, CO ₂).

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
	Propylene glycol monomethyl ether	Ingestion 6600 mg/kg	Rat	LD50
		Inhalation 36.4 mg/l/4h	Rat	LC50
		Skin 13000 mg/kg	Rabbit	LD50
	1,2,4-Trimethylbenzene	Ingestion 5000 mg/kg	Rat	LD50
		Inhalation 18 mg/l/4h	Rat	LC50
		Skin >3160 mg/kg	Rabbit	LD50
	2-Butoxyethanol	Ingestion 560 mg/kg	Rat	LD50
	Inhalation 2.21 mg/l/4h	Rat	LC50	
	Skin 220 mg/kg	Rabbit	LD50	
Silica Gel	Ingestion 3160 mg/kg	Rat	LD50	
	Inhalation >2.08 mg/l/4h	Rat	LC50	
	Skin >2000 mg/kg	Rabbit	LD50	
Sodium lauryl sulfate	Ingestion 1288 mg/kg	Rat	LD50	
	Inhalation >3.9 mg/l/1h	Rat	LC50	
	Skin >10000 mg/kg	Rabbit	LD50	
Stoddard solvent (Mineral Spirits)	Ingestion >5000 mg/kg	Rat	LD50	
	Inhalation >12 mg/l/4h	Rat	LC50	
	Skin >3000 mg/kg	Rabbit	LD50	
Likely routes of exposure	Skin, eyes, inhalation, ingestion.			
Delayed, immediate and chronic effects	Eye contact	May cause eye irritation.		
	Skin contact	May cause skin irritation. Prolonged and repeated contact may cause drying and cracking of the skin.		
	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.		
	Ingestion	May cause gastro-intestinal irritation with nausea and vomiting.		
	Respiratory or skin sensitization	This product is not a skin or respiratory sensitizer.		
	IARC/NTP Classification	No ingredients listed.		
	Carcinogenicity	Ingredients present at levels greater than or equal to 0.1% of this product are not listed as a carcinogen by IARC, ACGIH, NIOSH, NTP or OSHA.		
Teratogenicity	This material is not known to cause teratogenic effect.			
Mutagenicity	This material is not known to cause mutagenic effect.			

	<p>Reproductive toxicity This material is not known to cause effects on reproduction.</p> <p>Specific target organ toxicity - single exposure No specific toxicity data for some organs.</p> <p>Specific target organ toxicity - repeated exposure No specific toxicity data for some organs.</p>
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	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




<p>Container</p> 	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.
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14. Transport information

UN Number	UN
UN Proper Shipping Name	Not regulated by TDG (Canada) and 49 CFR DOT (USA).
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)	Not regulated
Packing group	Not regulated
IMO/IMDG - International Maritime Transport	

Classification	Not regulated
IATA - International Air Transport Association	
Classification	Not regulated
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

Other regulations	<p>UNITED STATE OF AMERICA:</p> <ul style="list-style-type: none"> - Toxic Substance Control Act (TSCA) : All ingredients are listed in the TSCA Inventory. - EPCRA Section 313 Toxic Chemicals: 1,2,4-Trimethylbenzene (CAS no. 95-63-6). - California Proposition 65: No material is listed. <p>CANADA :</p> <ul style="list-style-type: none"> - Canada DSL and NDSL: All ingredients are listed in the Domestic Substances List (DSL). - Canadian National Pollutant Release Inventory Substances (NPRI): Stoddard solvent (Mineral Spirits) (CAS No. 8052-41-3). 1,2,4-Trimethylbenzene (CAS no. 95-63-6). Propylene glycol monomethyl ether acetate (CAS no. 108-65-6). 2-Butoxyethanol (CAS no. 111-76-2).
	<p>WHMIS 1988</p>  <p>D1A D2B</p> <p>Class D1A : Very toxic material causing immediate and serious toxic effects Class D2B : Toxic material causing other toxic effects</p> <p>HMIS</p>  <p>② Health ① Flammability ① Reactivity ① Protective Equipment</p> <p>NFPA</p> 

16. Other information

Date (YYYY-MM-DD)	GEMINI INDUSTRIES, INC. 2014-12-11
Version	01
Other information	<p>REFERENCES:</p> <ul style="list-style-type: none"> - 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 - IUCLID Chemical Dataset, European Chemical Substances Information System (ESIS), Joint Research Centre, http://esis.jrc.ec.europa.eu - 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

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