



# Safety Data Sheet

## WHITE H/S W/B MODIFIED URETHANE SATIN



### 1. Identification

<b>Product identifier</b>	WHITE H/S W/B MODIFIED URETHANE SATIN
<b>Product code</b>	WB-1430
<b>Other means of identification</b>	None.
<b>Recommended use of the chemical and restrictions on use</b>	PAINT.
<b>Manufacturer</b>	GEMINI INDUSTRIES, INC. 2300 Holloway Drive El Reno, OK 73036 USA  Tel. 1-800-262-5710 Fax 1-405-262-9310 <a href="http://www.gemini-coatings.com">www.gemini-coatings.com</a>
<b>Emergency phone number</b>	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

<b>Summary</b>	WARNING! May cause irritation to skin, eyes and respiratory tract. Contains a substance that can cause cancer based on animal data. 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)  
 Carcinogenicity (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
- H351: Suspected of causing cancer by inhalation of dust
- P202: Do not handle until all safety precautions have been read and understood.
- 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
Titanium dioxide	13463-67-7	15 - 40 %
Propylene glycol monomethyl ether	107-98-2	1 - 5 %
Sodium lauryl sulfate	151-21-3	1 - 5 %
Propylene glycol monomethyl ether acetate	108-65-6	1 - 5 %
Stoddard solvent (Mineral Spirits)	8052-41-3	1 - 5 %
1,2,4-Trimethylbenzene	95-63-6	0.5 - 1.5 %

### 4. First-aid measures

<b>Inhalation</b>	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.
<b>Skin contact</b>	Wash skin with warm water and mild soap. Remove contaminated clothing and wash before reuse. If a problem develops or persists, seek medical attention.
<b>Eye contact</b>	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.
<b>Ingestion</b>	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.
<b>Other</b>	No information available.
<b>Symptoms</b>	No information available.
<b>Notes to the physician</b>	Treat symptomatically.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	dried powder, alcohol resistant foam, water spray, carbon dioxide (CO <sub>2</sub> ),
<b>Specific hazards arising from the chemical</b>	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.
<b>Special protective equipment</b>	Firefighters must wear self contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.
<b>Special protective actions for fire-fighters</b>	Use water spray to cool fire-exposed containers.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.
<b>Environmental precautions</b>	Prevent entry in sewer and other enclosed area. For a large spill, consult the Department of Environment or the relevant authorities.
<b>Methods and materials for containment and cleaning up</b>	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

<b>Precautions for safe handling</b>	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. 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.
<b>Conditions for safe storage, including any incompatibilities</b>	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.
<b>Storage temperature</b>	10 to 35°C (50 to 95°F)

## 8. Exposure controls/personal protection

<b>Immediately Dangerous to Life or Health</b>	Stoddard solvent (Mineral Spirits): 20000 mg/m <sup>3</sup> . Titanium dioxide: 5000 mg/m <sup>3</sup> .				
Titanium dioxide	TWA (8h)	Total Dust	10 mg/m <sup>3</sup>	AB , ACGIH, BC, ON, RSST	
Stoddard solvent (Mineral Spirits)	STEL		580 mg/m <sup>3</sup>	BC	
	TWA (8h)		290 mg/m <sup>3</sup>	BC	
			100 ppm	525 mg/m <sup>3</sup>	ACGIH , ON, RSST
			100 ppm	572 mg/m <sup>3</sup>	AB
Propylene glycol monomethyl ether acetate	STEL	75 ppm		BC	
	TWA (8h)	50 ppm		BC , US AIHA	
		50 ppm	270 mg/m <sup>3</sup>	ON	
Propylene glycol monomethyl ether	STEL	100 ppm		ACGIH	
		150 ppm		ON	
		150 ppm	553 mg/m <sup>3</sup>	RSST	
	TWA (8h)	50 ppm		ACGIH	
		100 ppm		ON	
		100 ppm	369 mg/m <sup>3</sup>	RSST	
1,2,4-Trimethylbenzene	TWA (8h)	25 ppm		ACGIH , BC, ON	
		25 ppm	123 mg/m <sup>3</sup>	AB , RSST	
<b>Appropriate engineering controls</b>	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	
<b>Eye</b>	Wear safety glasses. If there is a risk of contact with eyes, wear chemical splash goggles.
<b>Hands</b>	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.
<b>Skin</b>	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.
<b>Respiratory</b>	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. Use a dust particle mask when sanding.
<b>Feet</b>	Wear rubber boots to clean up a spill.

## 9. Physical and chemical properties

<b>Physical state</b>	Liquid	<b>Flammability</b>	Non-flammable.
<b>Colour</b>	White	<b>Flammability limits</b>	N/Av.
<b>Odour</b>	Mild acrylic odor	<b>Flash point</b>	>98.9°C (210°F) Tagliabue closed cup
<b>Odour threshold</b>	N/Av.	<b>Auto-ignition temperature</b>	N/Av.
<b>pH</b>	N/Av.	<b>Sensibility to electrostatic charges</b>	N/Av.
<b>Melting point</b>	N/Av.	<b>Sensibility to sparks and/or friction</b>	N/Av.
<b>Freezing point</b>	N/Av.	<b>Vapour density</b>	4.6 (Air = 1)
<b>Boiling point</b>	56.1 to 100°C (133 to 212°F)	<b>Relative density</b>	1.24 to 1.26 kg/L (Water = 1)
<b>Solubility</b>	Soluble in water.	<b>Partition coefficient n-octanol/water</b>	N/Av.
<b>Evaporation rate</b>	N/Av.	<b>Decomposition temperature</b>	N/Av.
<b>Vapour pressure</b>	0.133kPa (1 mm Hg)	<b>Viscosity</b>	N/Av.
<b>Percent Volatile</b>	53.2%	<b>Molecular mass</b>	N/Av.
N/Av.: Not Available    N/Av.: Not Available    Und.: Undetermined    N/E: Not Established			

## 10. Stability and reactivity

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under recommended storage conditions.
	A dangerous reaction will not occur.

<b>Possibility of hazardous reactions (including polymerizations)</b>	
<b>Conditions to avoid</b>	Avoid contact with incompatible materials. Avoid high temperatures and intense heat.
<b>Incompatible materials</b>	Strong oxidants, strong bases, strong acids.
<b>Hazardous decomposition products</b>	In combustion: nitrogen oxides, carbon oxides (CO, CO <sub>2</sub> ).

## 11. Toxicological information


<b>Numerical measures of toxicity</b>	<p>Titanium dioxide</p> <p>Ingestion &gt;10000 mg/kg Rat LD50 Inhalation &gt;6.82 mg/l/4h Rat LC50 Skin &gt;10000 mg/kg Rabbit LD50</p> <p>Propylene glycol monomethyl ether acetate</p> <p>Ingestion 8532 mg/kg Rat LD50 Inhalation 28.7 mg/l/4h Rat LC50 Skin &gt;5000 mg/kg Rabbit LD50</p> <p>Propylene glycol monomethyl ether</p> <p>Ingestion 6600 mg/kg Rat LD50 Inhalation 36.4 mg/l/4h Rat LC50 Skin 13000 mg/kg Rabbit LD50</p> <p>Sodium lauryl sulfate</p> <p>Ingestion 1288 mg/kg Rat LD50 Inhalation &gt;3.9 mg/l/1h Rat LC50 Skin &gt;10000 mg/kg Rabbit LD50</p> <p>Stoddard solvent (Mineral Spirits)</p> <p>Ingestion &gt;5000 mg/kg Rat LD50 Inhalation &gt;12 mg/l/4h Rat LC50 Skin &gt;3000 mg/kg Rabbit LD50</p> <p>1,2,4-Trimethylbenzene</p> <p>Ingestion 5000 mg/kg Rat LD50 Inhalation 18 mg/l/4h Rat LC50 Skin &gt;3160 mg/kg Rabbit LD50</p>
<b>Likely routes of exposure</b>	Skin, eyes, inhalation, ingestion.
<b>Delayed, immediate and chronic effects</b>	<p><b>Eye contact</b> May cause eye irritation.</p> <p><b>Skin contact</b> May cause skin irritation. Prolonged and repeated contact may cause drying and cracking of the skin.</p> <p><b>Inhalation</b> 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.</p> <p><b>Ingestion</b> May cause gastro-intestinal irritation with nausea and vomiting.</p> <p><b>Respiratory or skin sensitization</b> This product is not a skin or respiratory sensitizer.</p> <p><b>IARC/NTP Classification</b> <b>Common name IARC NTP</b> Titanium dioxide 2B - IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic. NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.</p> <p><b>Carcinogenicity</b> Contains a substance that can cause cancer based on animal data. The risk of cancer depends on duration and level of exposure. If material is to be dried and sanded by users, the risk of inhalation of dust will be increased, together with the risk of cancer hazard.</p> <p><b>Teratogenicity</b> This material is not known to cause teratogenic effect.</p> <p><b>Mutagenicity</b> This material is not known to cause mutagenic effect.</p> <p><b>Reproductive toxicity</b> This material is not known to cause effects on reproduction.</p> <p><b>Specific target organ toxicity - single exposure</b> No specific toxicity data for some organs.</p>

	<b>Specific target organ toxicity - repeated exposure</b> No specific toxicity data for some organs.
<b>Interactive effects</b>	No information available for this product.
<b>Other information</b>	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

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

## 13. Disposal considerations

	<b>Container</b> 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

<b>UN Number</b>	UN
<b>UN Proper Shipping Name</b>	Not regulated by TDG (Canada) and 49 CFR DOT (USA).
<b>Environmental hazards</b>	This material is not listed as a marine pollutant.
<b>Special precautions for user</b>	No information available.
<b>TDG - Transportation of Dangerous Goods (Canada)</b>	
<b>Transport hazard class(es)</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>IMO/IMDG - International Maritime Transport</b>	
<b>Classification</b>	Not regulated
<b>IATA - International Air Transport Association</b>	
<b>Classification</b>	Not regulated

## 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:

1,2,4-Trimethylbenzene (CAS no. 95-63-6).

- California Proposition 65:

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

Titanium dioxide (CAS no. 13463-67-7).

#### CANADA :

- 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).

#### WHMIS 1988



D2A D2B

Class D2A : Very toxic material causing other toxic effects

Class D2B : Toxic material causing other toxic effects

#### HMIS



#### NFPA



## 16. Other information

<b>Date</b> (YYYY-MM-DD)	GEMINI INDUSTRIES, INC. 2014-12-11
<b>Version</b>	01
<b>Other information</b>	<p>REFERENCES:</p> <ul style="list-style-type: none"> <li>- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, <a href="http://hazmap.nlm.nih.gov/index.php">http://hazmap.nlm.nih.gov/index.php</a></li> <li>- Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), <a href="http://www.reptox.csst.qc.ca">http://www.reptox.csst.qc.ca</a></li> <li>- IUCLID Chemical Dataset, European Chemical Substances Information System (ESIS), Joint Research Centre, <a href="http://esis.jrc.ec.europa.eu">http://esis.jrc.ec.europa.eu</a></li> <li>- NIOSH Pocket Guide to Chemical Hazards, Centers for Disease Control and Prevention, NIOSH Publications, 2007, <a href="http://www.cdc.gov/niosh/npg/npg.html">http://www.cdc.gov/niosh/npg/npg.html</a></li> <li>- IPCS INCHEM, Chemical Safety Information from Intergovernmental Organizations, Canadian Centre for Occupational Health and Safety (CCOHS), Copyright International Programme on Chemical Safety (IPCS), <a href="http://www.inchem.org">http://www.inchem.org</a></li> </ul> <p>ACGIH: American Conference of Governmental Industrial Hygienists                      AIHA: American Industrial Hygiene Association</p>

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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