



SAFETY DATA SHEET

WB-2K™ CLEAR COAT
SDS Revision Date: 06/08/2020

1. Identification

Product Name WB-2K™ Waterborne Urethane - Gloss (Part A)
Product Number WB-2K™, Side A

Relevant identified uses of the substance or mixture and uses advised against

Intended use See Technical Data Sheet
Application Method See Technical Data Sheet

Company Name Assero Coating Technologies Inc.
20 De Boers Drive, Suite 202
Toronto, ON M3J 0H1

Contact Information

Medical or Transportation * Emergency Only:

CHEMTREC +1.800.424.9300 - * Chemical Emergency ONLY (spill, leak, fire, exposure, or accident). Available: 24 / 7

Customer Service / Non-Emergency Inquiries:

Assero Industrial Coatings +1.888.588.6986 - www.assero.co

2. Hazard(s) Identification

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES Irritation
SKIN Prolonged or repeated exposure may cause irritation
INHALATION Irritation of the upper respiratory system

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic respiratory and/or skin reaction in susceptible persons, or sensitization. This effect may be delayed several hours after exposure.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

CANCER INFORMATION

For complete discussion of toxicology data, refer to Section 11.

HMIS Codes

HEALTH	2*
FLAMMABILITY	0
REACTIVITY	0



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3. Composition/Information on Ingredients

Weight %	CAS Number	Ingredient	Units	Vapor Pressure
2	102-71-6	Triethanolamine ACGIH TLV OSHA PEL	5 MG/M3 Not Available	
13	13463-67-7	Titanium Dioxide ACGIH TLV OSHA PEL OSHA PEL	10 mg/m3 as Dust 10 mg/m3 Total Dust 5 mg/m3 Respirable Fraction	

4. First Aid Measures

- EYES** Flush eyes with large amounts of water for 15 minutes. Get medical attention.
- SKIN** Wash affected area thoroughly with soap and water.
If irritation persists or occurs later, get medical attention.
Remove contaminated clothing and launder before re-use.
- INHALATION** If any breathing problems occur during use, **LEAVE THE AREA** and get fresh air.
If problems remain or occur later, **IMMEDIATELY** get medical attention.
- INGESTION** Do not induce vomiting. Get medical attention immediately.

5. Fire-fighting Measures

FLASH POINT 200 °F PMCC **LEL** Not Applicable **UEL** Not Applicable **FLAMMABILITY CLASSIFICATION** Not Applicable

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.
During emergency conditions, overexposure to decomposition products may cause a health hazard.
Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable.
Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.



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6. Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

7. Handling and Storage

STORAGE CATEGORY

DOL Storage Class IIIB

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

8. Exposure Controls and Personal Protection

PRECAUTIONS TO BE TAKEN IN USE

NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONGTERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 3) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 3, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 3 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 3 may be effective. Follow respirator manufacturer's directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. **NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.**

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.



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PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 3.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

9. Physical and Chemical Properties

PRODUCT WEIGHT	9.69 lb/gal 1161 g/l
SPECIFIC GRAVITY	1.17
BOILING POINT	212 - 213 °F 100 - 100 °C
MELTING POINT	Not Available
VOLATILE VOLUME	60% (water)
EVAPORATION RATE	Slower than ether
VAPOR DENSITY	Heavier than air
SOLUBILITY IN WATER	miscible
pH	> 2.0, < 11.5
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)	
	0.00 lb/gal 0 g/l Less Water and Federally Exempt Solvents
	0.00 lb/gal 0 g/l Emitted VOC

10. Stability and Reactivity

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur



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11. Toxicological Information

CHRONIC HEALTH HAZARDS

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS Number	Ingredient Name			
102-71-6	Triethanolamine	LC50 RAT LD50 RAT	4HR	Not Available 9100 mg/kg
13463-67-7	Titanium Dioxide	LC50 RAT LD50 RAT	4HR	Not Available Not Available

12. Ecological Information

ECOTOXICOLOGICAL INFORMATION

No data available.

13. Disposal Considerations

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

14. Transport Information

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

US Ground (DOT)

Not Regulated for Transportation.

Canada (TDG)

Not Regulated for Transportation.



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IMO
Not Regulated for Transportation.

IMO
Not Regulated for Transportation.

IATA/ICAO
Not Regulated for Transportation.

15. Regulatory Information

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS Number	Chemical/Compound	% by Weight	% Element
No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.			

CALIFORNIA PROPOSITION 65

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

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

16. Other Information

SDS Revision Date 06/08/2020

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

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SIDE A



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SIDE B



SAFETY DATA SHEET

WB-2K™ CLEAR COAT
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1. Identification

Product Name WB-2K™ Waterborne Urethane - Gloss (Part B), Hardener
Product Number WB-2K™, Side B

Relevant identified uses of the substance or mixture and uses advised against

Intended use See Technical Data Sheet
Application Method See Technical Data Sheet

Company Name Assero Coating Technologies Inc.
20 De Boers Drive, Suite 202
Toronto, ON M3J 0H1

Contact Information

Medical or Transportation * Emergency Only:

CHEMTREC +1.800.424.9300 - * Chemical Emergency ONLY (spill, leak, fire, exposure, or accident). Available: 24 / 7

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2. Hazard(s) Identification

ROUTES OF EXPOSURE

EYE or SKIN contact with the product.

EFFECTS OF OVEREXPOSURE

EYES Irritation
SKIN Prolonged or repeated exposure may cause irritation
INHALATION Irritation of the upper respiratory system

HMIS Codes

HEALTH	2*
FLAMMABILITY	1
REACTIVITY	1

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic respiratory and/or skin reaction in susceptible persons, or sensitization. This effect may be delayed several hours after exposure.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

CANCER INFORMATION

For complete discussion of toxicology data, refer to Section 11.



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3. Composition/Information on Ingredients

Weight %	CAS Number	Ingredient	Units	Vapor Pressure
.05	822-06-0	Hexamethylene Diisocyanate (max.) ACGIH TLV OSHA PEL	0.005 PPM Not Available	0.05 mm
4	Proprietary	Blocked Polyisocyanate ACGIH TLV OSHA PEL	Not Available Not Available	
96	28182-81-2	Hexamethylene Diisocyanate Polymer ACGIH TLV OSHA PEL	Not Available Not Available	

4. First Aid Measures

- EYES** Flush eyes with large amounts of water for 15 minutes. Get medical attention.
- SKIN** Wash affected area thoroughly with soap and water.
- INHALATION** If any breathing problems occur during use, **LEAVE THE AREA** and get fresh air. If problems remain or occur later, **IMMEDIATELY** get medical attention.
- INGESTION** Do not induce vomiting. Get medical attention immediately.

5. Fire-fighting Measures

FLASH POINT >200 °F PMCC	LEL Not Applicable	UEL Not Applicable	FLAMMABILITY CLASSIFICATION Not Applicable
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EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.



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6. Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

All personnel in the area should be protected as in Section 8.

Cover spill with absorbent material. Deactivate spilled material with a 10% ammonium hydroxide solution (household ammonia). After 10 minutes, collect in open containers and add more ammonia. Cover loosely. Wash spill area with soap and water.

7. Handling and Storage

STORAGE CATEGORY

DOL Storage Class IIIB

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

8. Exposure Controls and Personal Protection

PRECAUTIONS TO BE TAKEN IN USE

NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONGTERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 3) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 3, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 3 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 3 may be effective. Follow respirator manufacturer's directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. **NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.**

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.



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PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 3.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

9. Physical and Chemical Properties

PRODUCT WEIGHT	9.60 lb/gal 1150 g/l
SPECIFIC GRAVITY	1.16
BOILING POINT	Not Applicable
MELTING POINT	Not Available
VOLATILE VOLUME	0%
EVAPORATION RATE	Not Available
VAPOR DENSITY	Not Available
SOLUBILITY IN WATER	Not Available
pH	> 2.0, < 11.5
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)	
	0.00 lb/gal 0 g/l Less Water and Federally Exempt Solvents
	0.00 lb/gal 0 g/l Emitted VOC

10. Stability and Reactivity

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

Contamination with Water, Alcohols, Amines and other compounds which react with isocyanates, may result in dangerous pressure in, and possible bursting of, closed containers.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur



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11. Toxicological Information

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA

CAS Number	Ingredient Name			
822-06-0	Hexamethylene Diisocyanate (max.)	LC50 RAT LD50 RAT	4HR	Not Available 738 mg/kg
Proprietary	Blocked Polyisocyanate	LC50 RAT LD50 RAT	4HR	Not Available Not Available
28182-81-2	Hexamethylene Diisocyanate Polymer	LC50 RAT LD50 RAT	4HR	Not Available Not Available

12. Ecological Information

ECOTOXICOLOGICAL INFORMATION

No data available.

13. Disposal Considerations

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

14. Transport Information

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US Ground (DOT)

Not Regulated for Transportation.



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DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities
Hexamethylene 1,6-diisocyanate 100 lb RQ

Canada (TDG)
Not Regulated for Transportation.

IMO
Not Regulated for Transportation.

IMO
Not Regulated for Transportation.

IATA/ICAO
Not Regulated for Transportation.

15. Regulatory Information

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS Number	Chemical/Compound	% by Weight	% Element
No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.			

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

16. Other Information

SDS Revision Date 06/08/2020

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