

CHEM1000 WT™

HIGH PERFORMANCE POLYASPARTIC COATING

Technical Data Sheet

DCC Master Format™ 09 67 00

COMMERCIAL INDUSTRIAL INSTITUTIONAL RESIDENTIAL

CHEMTEC

EPOXY COATINGS

PRODUCT DESCRIPTION

CHEM1000 WT™ is a two-component (1:1) Polyaspartic coating. The **CHEM1000 WT™** is used as a basecoat (colored) and a clear topcoat using a common hardener. It provides a quick turnaround with very rapid curing time (tack free of approx. 180 minutes) under normal conditions allowing the installation of a flooring system in a single day. The product displays excellent curing capability at high temperature levels. This product offers superior mechanical and chemical properties and is low maintenance. It also displays a superior aesthetic finish and excellent UV stability. It may be used in combination with CHEM100 as a basecoat. (Ask a CHEMTEC representative for additional details).

ADVANTAGES:

- ☒ Indistinct odor
- ☒ VOC Compliant
- ☒ High Sheen
- ☒ Potential for LEED eligibility
- ☒ Low maintenance
- ☒ Low VOC
- ☒ Excellent elongation and abrasion resistance
- ☒ Superior mechanical and chemical properties
- ☒ Self-Priming
- ☒ High Color stability
- ☒ Chemical resistance
- ☒ Seamless Coating
- ☒ UV Resistance
- ☒ Multi-Coat application in one single day.
- ☒ Ease of application with long pot life and long working time
- ☒ Impermeability / Mold resistant
- ☒ VOC and EPA Compliant in all States and Canadian Provinces
- ☒ CIFA, USDA, FDA, Food Safety Compliant

APPLICATIONS

The chemical and mechanical properties of CHEM1000 WT™ provide excellent results for several applications.

- Pharmaceuticals
- Garage floors
- Kitchens
- Corridors
- Showrooms
- Laboratories
- Commercial Centers
- Office buildings
- Other Residential applications
- Food processing
- Washrooms & Showers
- Manufactures/Fabrication
- Public facilities
- Schools
- Hospitals
- Retail Stores
- Warehouses
- Other commercial applications

COLORS

Available in clear and colored (See the CHEMTEC™ color chart)

Endless color and texture combinations can be achieved by dispersing colorful flakes, colored quartz, or silica sand.

PACKAGING

The **CHEM1000 WT™** kit consists of Resin Part A and Part B Hardener.

| | Part A | Part B |
|-------------------------------------|-----------|-----------|
| 2 Gallon Kit | 1 Gallon | 1 Gallon |
| 10 Gallon Kit | 5 Gallons | 5 Gallons |
| Larger units available upon request | | |

TESTING

All surfaces are not the same. It is recommended to create a sample area before starting the project. The test should be performed on site, using the method offered by your CHEMTEC™ representative to ensure good adhesion and color. A sampling area should also be performed on existing coatings to determine if there are any contaminants or if delamination will occur.

CHECK CONCRETE MOISTURE

Concrete must be dry before application of this floor coating material. Concrete moisture tests are required, either ASTM F1869 (calcium chloride) or ASTM F2170 (in situ RH probe) or any other methods approved by CHEMTEC™ COATINGS INC.

CHECK TEMPERATURE AND HUMIDITY

Floor and material temperature must be at or above the published Technical Data Sheet requirements. Dew point must be 5°F (3°C) or more below the surface temperature. Do not apply if humidity is at or above 85%.

SURFACE PREPARATION

Surface preparation in accordance with: ICRI Guideline No. 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair. The pH of the concrete substrate should be at 9 or above. All bond-breaking material must be removed.

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PHYSICAL PROPERTIES

| PROPERTIES | VALUES | REFERENCES |
|---------------------------------------------------------------------|------------------------------------------------|--------------------------|
| Compressive Strength | 14,000 psi – 96MPa | ASTM C 579 |
| Flexural Strength: | 3,700 psi – 25.5MPa | ASTM D 790 |
| Tensile Strength: | 8,000 psi – 55.2MPa | ASTM D 638 |
| Bond Strength (concrete): | 350psi – (2.4) Concrete fails at this point | ASTM D 4541 |
| Flammability | Self-extinguisher | ASTM D 635 |
| Hardness (Shore D): | >65 | ASTM D 2240 |
| Water Absorption: | < 0.1% < 0.1% | ASTM D 570 MIL D 3134 |
| Impact Resistance | No chipping, cracking, or delaminating | ASTM D 2240 |
| Flash Point: | >200°F - >93°C | |
| Abrasion Resistance (CS-17 Wheel, 1,000 g load, 1,000 cycles) | 58 mg loss | ASTM D 4060 |

PRODUCT DATA

| | |
|----------------------------------------|------------------------|
| Volumetric Ratio: | 1A:1B |
| Solids Content: | 85% |
| *Coverage: | 75 - 200 sq.ft. |
| Application Temperature: | 65-90°F (18-32°C) |
| Min Substrate Temperature: | 50°F (10°C) |
| Max Substrate Temperature: | 86°F (30°C) |
| Thinner: | Not required |
| Pot Life @ 21°C: | 10-15 minutes |
| **Drying / Curing Time : | |
| Working Time: | 25 minutes |
| Tack Free: | 3 hours |
| Pedestrian: | 5-7 hours |
| Traffic: | 24 hours |
| Curing Time @ 21°C for resurfacing: | 24 hours |
| Shelf Life: | 12 months |
| USDA Food & Beverage & CFIA: | Meets the requirements |

*Coverage will differ depending on the quality, porosity, of the substrate, thickness, and application methods.

**Based at 71°F (22°C) & 55% relative humidity

CHEMICAL RESISTANCE

| REAGENT | RESULTS |
|----------------------------|---------------------|
| ASTM 1308, Covered 7 days. | |
| Skydrol | Unaltered |
| Betadine | Unaltered |
| Calcium Chloride 20% | Unaltered |
| Ammonia 20% | Unaltered |
| Trisodium phosphate 20% | Unaltered |
| Caustic Soda 20% | Unaltered |
| Javex 3% | Unaltered |
| Mineral spirits | Unaltered |
| Methanol | Unaltered |
| Toluene | Unaltered |
| Xylene | Unaltered |
| Hydrochloric acid 10% | Unaltered |
| Citric acid 10% | Unaltered |
| Lactic acid 5% | Unaltered |
| Unleaded petrol | Unaltered |
| Coffee | Unaltered |
| Tea | Unaltered |
| Beer | Unaltered |
| Skydrol | Unaltered |
| Nitric acid 10% | Some yellowing |
| Sulfuric acid 10% | Slightly discolored |

CONCRETE SURFACE PREPARATION

Before applying the coating system, the concrete must be:

- Dry – No wet zones (<4%)
- Clean – Eliminate all contaminants, dust, grease, delaminated coating, laitance, or any other contaminants that may prevent proper adhesion.
- Profiled – Mechanically profiled Surface (Surface Preparation ICRI Guideline No. 310.2R Concrete Surface Profile (CSP 2 and above) Depending on System to be Installed and Condition of Concrete, and/or approved by a CHEMTEC Representative.
- Sound – All cracks and chipped areas should be repaired.
- Concrete preparation must be carried out by mechanical means such as shot blasting, grinding, sandblasting, or any other method approved by CHEMTEC™

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PATCHING & REPAIRS

Cavities, cracks, and imperfections will be visible in the coating if the concrete is not repaired properly. Level and fill the concrete cavities with CHEM-3000™. Once the material is cured, correct any imperfections by diamond sanding. If a repair material other than CHEMTEC™ is used, contact a CHEMTEC™ technical representative for approval of a compatible alternative.

MIXING

The mixing ratio for the CHEM1000 WT™ is 1 for 1 (by volume). In other words, one parts A (resin) for one part B (hardener). Mix the CHEM1000 WT™ using a drill and a mixing paddle.

Note: If using a drill mixer, use a low speed (not to exceed 300 RPM) to avoid air entrapment.

1. Add the contents of the pre-measured CHEM1000 WT™ and mix for 3 minutes.
2. CHEM1000 WT™ is designed to be immediately poured onto the floor. Leaving the mixed product in the container will greatly reduce the working time. Once dumped on the ground, you can usually expect 25 minutes of working time.

APPLICATION INSTRUCTIONS

The application of the CHEM1000™ WT for a solid color coating system is applied in two coats or in a single pass as a topcoat over CHEM100™, CHEM1000™, or CHEM1000™ PREMIUM. For estimation purposes, estimate between 75-200ft² per gallon in both cases.

1. Always apply at decreasing temperatures. Concrete is porous and traps air. At rising temperatures (usually in the morning), the air expands and can cause gas to escape in the coating.
2. The optimum ambient temperature should be between 18 and 26°C (65 & 78°F) during application.
3. Mix the gallons of resin using the mixing instructions above.
4. Apply immediately pouring on the surface in a ribbon pattern, while walking and pouring at the same time until the bucket is empty. Do not leave the bucket on the floor.
5. Using a squeegee on an extension, pull the CHEM1000™ WT over the substrate. As the first coat over bare concrete, pull the resin while wetting the concrete and evenly covering the surface.

APPLICATION INSTRUCTIONS (CONTINUED)

6. Using a 10mm microfiber roller, roll evenly forward and backward.
7. Finally, back-roll in the opposite direction in step 6.
8. Once the coating is dry, apply the second coat by repeating steps 1 to 7.
9. Clean & sweep the floor and sand any high points or imperfections.
10. Apply topcoat using the same procedure as in steps 4 to 7.
11. If additional chemical, abrasion, and/or anti-slip protection is required, contact your CHEMTEC™ representative for recommendations.

Decorative Colored Flakes Diffusion System Instructions

1. **Decorative Flakes Diffusion:** After following the basecoat application in steps 1-7, then diffuse the color flakes between 15-20 lbs per 100ft² by tossing them in the air and allowing them to rain gently in the wet resin until full saturation.
2. For random / partial broadcast, use 1 lb of flakes per 100ft².
3. Leave to dry. Then scrape the flakes with a scraper in both directions.
4. Vacuum the surface in both directions.
(Not enough vacuuming can lead to poor adhesion of the coating).

Decorative Colored Quartz & Silica Sand Diffusion System Instructions

1. **Quartz & Silica Sand Diffusion:** Following step 6 above, gently toss the aggregates into the air, allowing it to fall without clumping in one place or moving the resin. Do this until the resin is completely saturated with silica sand/Quartz and the resin can no longer be filled. This usually requires 1/2 to 3/4 lb. by square feet. Let dry for 4-6 hours.
2. Clean and sweep the floor before applying the CHEM1000™ WT topcoat.
3. **Finishing:** Apply the topcoat CHEM1000™ WT following steps 1-6.
4. If additional chemical, abrasion, and/or anti-slip protection is required, contact your CHEMTEC™ representative for recommendations.

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PRODUCT LIMITATIONS

Concrete slabs at ground level emit invisible moisture vapor. The permissible moisture emissions for concrete are 3 lb. / 1000ft² over 24 hours (<4%) based on calcium chloride test. Additionally, a relative humidity (RH) test can be performed to test for moisture vapor. Relative humidity test results should be less than 85% per ASTM F2170. If humidity is above this level, blistering and delamination of the coating may occur. A calcium chloride or relative humidity test should be performed to determine the moisture levels of the concrete. If humidity levels exceed 85% for RH test or 3 lbs. for calcium chloride, a concrete moisture vapor control system should be used before applying the coating system.

System recommended for cases of humidity above acceptable levels; CHEM-PROOF™. The CHEM-PROOF™ Vapor Barrier passes the F3010 specification based on E96 test results. Please contact a CHEMTEC™ representative for details.

Coating systems are susceptible to cracking if the concrete moves or separates under the coating. Therefore, the treatment of joints and cracks should be reviewed prior to coating application. As a general rule, control joints (saw cuts) and random cracks should first be sawn or chiseled and then filled with the CHEM3000™.

WARRANTY

CHEMTEC™ COATINGS products are guaranteed for one year from the date of application. Please refer to the CHEMTEC™ Limited Warranty for additional details.

DISPOSAL

- ▲ Excess material (A and B) should be mixed and allowed to cure. Cured product may be disposed without restriction.
- ▲ Uncured materials should be stored in a suitable and sealed container and may be disposed in accordance with provincial, State, municipal, and /or Federal regulations.

SAFETY WARNING

Avoid contact with the skin. Some people may be allergic to epoxy resin. Protective gloves, eyewear, protective clothing, and adequate ventilation are recommended.

For additional information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent CHEM1000™ WT Material Safety Data Sheet containing physical, ecological, toxicological, and other safety-related data.

- KEEP OUT OF REACH OF CHILDREN -

- FOR INDUSTRIAL USE ONLY -

- KEEP FROM FREEZING -

The Information, and in particular, the recommendations relating to the application and end-use of CHEMTEC™ COATINGS products, are given in good faith based on CHEMTEC's™ current knowledge and experience of the products when properly stored, handled, and applied under normal conditions, within their shelf-life. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product Technical Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.epoxychemtec.com

SAFETY DATA SHEET (SDS)

Section 1. Identification

| | |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Product identifier | CHEM 1000 WT PART A |
| Other means of identification | CHEM 1000 WT A |
| Recommended use and restrictions on use | Coating |
| Initial supplier identifier | CHEMTEC; 4117 Industriel; Laval; Québec; Canada; info@epoxychemtec.com T 450-629-1717 |
| Emergency telephone number/restriction on use | Canada – CANUTEC 24-hour number 613-996-6666 |

Section 2. Hazard identification

Classification of hazardous product (name of the category or subcategory of the hazard class)

Skin sensitization (category 1)

Eye irritation (Category 2A)

Hazardous to the aquatic environment - Chronic (Category 3)

Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)



Warning

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands/nails/face thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN, Wash with plenty of water for several minutes. P333 + P313 IF SKIN irritation or rash occurs: Get medical attention. P362+P364 Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 IF IN EYES, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention. P273 Avoid release to the environment. P391 Collect spillage. P501 Dispose of contents/container in accordance with local, regional, or national regulations.

Other hazards known None

Section 3. Composition/information on ingredients

| Chemical name (common name/synonyms) | CAS number or other | Concentration (%) |
|--------------------------------------------------------------------------------------|---------------------|-------------------|
| Aspartic Acid, N,N'-(methylenedi-4,1-cyclohexanedyl)bis-, 1,1',4,4'-tetraethyl ester | 136210-30-5 | 45-70 |
| Polyaspartic Polyurea Resin | 136210-32-7 | 30-60 |
| Dipropylene glycol dimethyl ether | 111109-77-4 | 10-30 |

* Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) by weight (except for gases/propellants by volume) considered trade secret(s).

Section 4. First-aid measures

| | |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell. |
| Ingestion | IF SWALLOWED: Immediately call a doctor. DO NOT INDUCE VOMITING. NEVER give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing. Rinse mouth thoroughly with water. Have victim drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. |
| Skin contact | IF ON SKIN: wash with plenty of water. (15-20 minutes) IF SKIN irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. |
| Eye contact | IF IN EYES, Rinse cautiously with water for several minutes (15-20). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |

Most important symptoms and effects (acute or delayed) May cause an allergic skin reaction.

Indication of immediate medical attention/special treatment In all cases, call a doctor. Do not forget this document.

Section 5. Fire-fighting measures

Specific hazards of the hazardous product (hazardous combustion products)

Carbon oxides and other irritant/toxic gases and fumes.

Suitable and unsuitable extinguishing media

In case of fire: Use carbon dioxide, chemical powder agent and appropriate foam to extinguish surrounding products.

Special protective equipment and precautions for fire-fighters

During a fire, irritating/toxic smoke and fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece. Shield personnel to protect from venting, rupturing or bursting cans. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment and cans exposed to heat and flame.

Section 6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8).

Methods and materials for containment and cleaning up

Ventilate area of release. Stop the leak if it can be done safely. Contain and absorb any spilled liquid concentrate with inert absorbent material, then place material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

Section 7. Handling and storage**Precautions for safe handling**

Wear gloves/protective clothing/eye protection/face protection.

Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Inspect containers for leaks before handling. Label containers appropriately. Ensure proper ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Avoid generating high concentrations of dusts, vapours or mists. Keep away from incompatible materials (Section 10). Keep containers closed when not in use. Empty containers are always dangerous. Refer also to Section 8.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks.

Section 8. Exposure controls/Personal protection**Control parameters (biological limit values or exposure limit values and source of those values)**

Exposure limits: Dust – PEL-TWA 15 mg/m³ (total dust) & 5 mg/m³ (respirable fraction);

Appropriate engineering controls

Use under well-ventilated conditions. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Individual protection measures/personal protective equipment

Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirators if the exposure limits are unknown. Chemically protective gloves (impervious), and other protective clothing to prevent prolonged or repeated skin contact, must be worn during all handling operations. Wear protective chemical splash goggles to prevent mists from entering the eyes. Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use.

Section 9. Physical and chemical properties

| | | | |
|------------------------------------------------------|----------------|------------------------------------------------|------------------|
| Appearance, physical state/colour | Liquid | Vapour pressure | Not available |
| Odour | Characteristic | Vapour density | Heavier than air |
| Odour threshold | Not available | Relative density | Not available |
| pH | Not available | Solubility | Not available |
| Melting/freezing point | Not available | Partition coefficient - n-octanol/water | Not available |
| Initial boiling point/range | Not available | Auto-ignition temperature | Not available |
| Flash point | > 93°C | Decomposition temperature | Not available |
| Evaporation rate | Not available | Viscosity | Not available |
| Flammability (solids and gases) | Not available | VOC | Not available |
| Upper and lower flammability/explosive limits | Not available | Other | None known |

Section 10. Stability and reactivity**Reactivity**

Does not react under the recommended storage and handling conditions prescribed.

Chemical stability

Stable under the recommended storage and handling conditions prescribed.

Possibility of hazardous reactions

None known

Conditions to avoid (static discharge, shock or vibration)

None known

Incompatible materials

Oxidizing materials; etc.

Hazardous decomposition products

None known

Section 11. Toxicological information**Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)**

May cause an allergic skin reaction. Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Skin irritation, redness, stinging, pain; Eye irritation, redness, tearing;

Delayed and immediate effects (chronic effects from short-term and long-term exposure)

Skin Sensitization – Possible; Respiratory Sensitization – No data available; Germ Cell Mutagenicity – No data available; Carcinogenicity – No ingredient listed by IARC, ACGIH, NTP or OSHA Reproductive Toxicity – No data available; Specific Target Organ Toxicity — Single Exposure – No data available; Specific Target Organ Toxicity — Repeated Exposure – No data available; Aspiration Hazard – No data available; Health Hazards Not Otherwise Classified – No data available.

Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀)

None.

ATE not available in this document.

Section 12. Ecological information**Ecotoxicity (aquatic and terrestrial information)** | No data available for the product**Persistence and degradability** | No data available**Bioaccumulative potential** | No data available**Mobility in soil** | No data available**Other adverse effects** | Harmful to aquatic life with long lasting effects.**Section 13. Disposal considerations****Information on safe handling for disposal/methods of disposal/contaminated packaging**

Dispose of contents/container into safe container in accordance with local, regional, or national regulations.

Section 14. Transport information**UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations**

NOT REGULATED

UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)

NOT REGULATED

UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)

NOT REGULATED

Special precautions (transport/conveyance) | None**Environmental hazards (IMDG or other)** | None**Bulk transport (usually more than 450 L in capacity)** | Possible**Section 15. Regulatory information****Safety/health Canadian regulations specifics** | Refer to Section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).**Environmental Canadian regulations specifics** | Refer to Section 3 for ingredient(s) of the DSL**Safety/health/environmental outside regulations specifics**

United States OSHA information: This product is regulated according to OSHA (29 CFR).

United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14.

United States TCSA information: Refer to the ingredients listed in Section 3.

Section 16. Other information**Date of the latest revision of the safety data sheet** | January 14, 2022 version 3 (NSS ENTREPRISE INC.)**Corrections** | Complete review**References** | Safety Data Sheets from manufacturer/supplier & from Canadian Centre for Occupational Health and Safety, CCOHS.**Abbreviations**

| | |
|-------|-----------------------------------------------------------|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ATE | Acute toxicity estimate |
| CAS | Chemical Abstract Service |
| DSL | Domestic Substance List |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods Code |
| LC | Lethal concentration |
| LD | Lethal Dosage |
| NIOSH | National Institute for Occupational Safety and Health |
| NTP | National Toxicology Program (U.S.A.) |
| OSHA | Occupational Safety and Health Administration (U.S.A.) |
| PEL | Permissible Exposure Limit |
| STEL | Short-term Exposure Limit |
| TDG | Transport of dangerous goods in Canada |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |
| TWA | Time Weighted Average |
| WHMIS | Workplace Hazardous Materials Information System |

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier 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.

SAFETY DATA SHEET (SDS)

Section 1. Identification

| | |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Product identifier | CHEM 1000 WT PART B |
| Other means of identification | CHEM 1000 WT B |
| Recommended use and restrictions on use | Floor Coating |
| Initial supplier identifier | CHEMTEC; 4117 Industriel; Laval; Québec; Canada; H7L 6B9 info@epoxychemtec.com T 450-629-1717 |
| Emergency telephone number/restriction on use | Canada – CANUTEC 24-hour number 613-996-6666 |

Section 2. Hazard identification

Classification of hazardous product (name of the category or subcategory of the hazard class)

Skin irritation (Category 2)
 Eye irritation (Category 2A)
 Specific target organ toxicity – single exposure (Category 3)
 Skin sensitization (category 1)
 Acute toxicity inhalation (Category 4)
 Respiratory sensitization (category 1)
 Specific target organ toxicity - repeated exposure (Category 2)

Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)



Danger

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

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.

P260 Do not breathe dusts or mists. P264 Wash hands/nails/face thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 Wear respiratory protection. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312

Call a doctor if you feel unwell. P342 + P311 If experiencing respiratory symptoms: Call a doctor. P302+P352 IF ON SKIN, Wash with plenty of

water for several minutes. P333 + P313 IF SKIN irritation or rash occurs: Get medical attention. P362+P364 Take off contaminated clothing and

wash it before reuse. P305 + P351 + P338 IF IN EYES, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention. P308 + P313 IF exposed or concerned: Get medical attention.

P273 Avoid release to the environment. P391 Collect spillage. P403 + P233 + P235 Store in a well-ventilated place. Keep container tightly closed.

Keep cool. P405 Store locked up. P501 Dispose of contents/container into safe container in accordance with local, regional, or national regulations.

Other hazards known None

Section 3. Composition/information on ingredients

| Chemical name (common name/synonyms) | CAS number or other | Concentration (%) |
|--------------------------------------|---------------------|-------------------|
| Homopolymer of HDI | 28182-81-2 | 60-80 |
| Hexamethylene diisocyanate | 822-06-0 | < 1 |
| Dipropylene glycol dimethyl ether | 111109-77-4 | 15-40 |

* Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) by weight (except for gases/propellants by volume) considered trade secret(s).

Section 4. First-aid measures

| | |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell. |
| Ingestion | IF SWALLOWED: Immediately call a doctor. DO NOT INDUCE VOMITING. NEVER give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing. Rinse mouth thoroughly with water. Have victim drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. |
| Skin contact | IF ON SKIN: wash with plenty of water. (15-20 minutes) IF SKIN irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. |
| Eye contact | IF IN EYES, Rinse cautiously with water for several minutes (15-20). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |
| Most important symptoms and effects (acute or delayed) | Causes skin irritation. |
| Indication of immediate medical attention/special treatment | In all cases, call a doctor. Do not forget this document. |

Section 5. Fire-fighting measures

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| Specific hazards of the hazardous product (hazardous combustion products) | |
| Carbon oxides and other irritant/toxic gases and fumes. | |
| Suitable and unsuitable extinguishing media | |
| In case of fire: Use carbon dioxide, chemical powder agent and appropriate foam to extinguish surrounding products. | |
| Special protective equipment and precautions for fire-fighters | |
| During a fire, irritating/toxic smoke and fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece. Shield personnel to protect from venting, rupturing or bursting cans. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment and cans exposed to heat and flame. | |

Section 6. Accidental release measures

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| Personal precautions, protective equipment and emergency procedures | |
| Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8). | |
| Methods and materials for containment and cleaning up | |
| Ventilate area of release. Stop the leak if it can be done safely. Contain and absorb any spilled liquid concentrate with inert absorbent material, then place material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required. | |

Section 7. Handling and storage

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| Precautions for safe handling | |
| Wear gloves/protective clothing/eye protection/face protection. Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Inspect containers for leaks before handling. Label containers appropriately. Ensure proper ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Avoid generating high concentrations of dusts, vapours or mists. Keep away from incompatible materials (Section 10). Keep containers closed when not in use. Empty containers are always dangerous. Refer also to Section 8. | |
| Conditions for safe storage, including any incompatibilities | |
| Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks. | |

Section 8. Exposure controls/Personal protection

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| Control parameters (biological limit values or exposure limit values and source of those values) | |
| Exposure limits: CAS 822-06-0 ACGIH – TLV-TWA 0.005 ppm; Dust – PEL-TWA 15 mg/m ³ (total dust) & 5 mg/m ³ (respirable fraction); | |
| Appropriate engineering controls | |
| Use under well-ventilated conditions. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area. | |
| Individual protection measures/personal protective equipment | |
| Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirators if the exposure limits are unknown. Chemically protective gloves (impervious), and other protective clothing to prevent prolonged or repeated skin contact, must be worn during all handling operations. Wear protective chemical splash goggles to prevent mists from entering the eyes. Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use. | |

Section 9. Physical and chemical properties

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|-----------------------------------------------|----------------|-----------------------------------------|------------------|
| Appearance, physical state/colour | Liquid | Vapour pressure | Not available |
| Odour | Characteristic | Vapour density | Heavier than air |
| Odour threshold | Not available | Relative density | Not available |
| pH | Not available | Solubility | Not available |
| Melting/freezing point | Not available | Partition coefficient - n-octanol/water | Not available |
| Initial boiling point/range | Not available | Auto-ignition temperature | Not available |
| Flash point | > 93°C | Decomposition temperature | Not available |
| Evaporation rate | Not available | Viscosity | Not available |
| Flammability (solids and gases) | Not available | VOC | Not available |
| Upper and lower flammability/explosive limits | Not available | Other | None known |

Section 10. Stability and reactivity

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|----------------------------------------------------------------------------------|
| Reactivity |
| Does not react under the recommended storage and handling conditions prescribed. |
| Chemical stability |
| Stable under the recommended storage and handling conditions prescribed. |
| Possibility of hazardous reactions |
| None known |
| Conditions to avoid (static discharge, shock or vibration) |
| None known |
| Incompatible materials |
| Oxidizing materials; etc. |
| Hazardous decomposition products |
| None known |

Section 11. Toxicological information

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| Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact) |
| Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. |
| Symptoms related to the physical, chemical, and toxicological characteristics |
| Skin irritation, redness, stinging, pain; Eye irritation, redness, tearing; Digestive tract irritation; Respiratory tract irritation, coughing, shortness of breath, dizziness, drowsiness, nausea, and headaches. |
| Delayed and immediate effects (chronic effects from short-term and long-term exposure) |
| Skin Sensitization – Possible; Respiratory Sensitization – Possible; Germ Cell Mutagenicity – No data available; Carcinogenicity – No ingredient listed by IARC, ACGIH, NTP or OSHA Reproductive Toxicity – No data available; Specific Target Organ Toxicity — Single Exposure – Possible; Specific Target Organ Toxicity — Repeated Exposure – Possible; Aspiration Hazard – No data available; Health Hazards Not Otherwise Classified – No data available. |
| Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀) |
| CAS 28182-81-2 LC ₅₀ Inhalation - Rat - 4 h – 400-425 mg/m ³ ; CAS 822-06-0 LC ₅₀ Inhalation - Rat - 4 h – 310-350 mg/m ³ ; ATE not available in this document. |

Section 12. Ecological information

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|----------------------------------------------------------|-----------------------------------|
| Ecotoxicity (aquatic and terrestrial information) | No data available for the product |
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |
| Other adverse effects | No data available |

Section 13. Disposal considerations

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| Information on safe handling for disposal/methods of disposal/contaminated packaging |
| Dispose of contents/container into safe container in accordance with local, regional, or national regulations. |

Section 14. Transport information

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|---------------------------------------------------------------------------------------|----------|--|
| UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations | | |
| NOT REGULATED | | |
| UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime) | | |
| NOT REGULATED | | |
| UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air) | | |
| NOT REGULATED | | |
| Special precautions (transport/conveyance) | None | |
| Environmental hazards (IMDG or other) | None | |
| Bulk transport (usually more than 450 L in capacity) | Possible | |

Section 15. Regulatory information

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|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety/health Canadian regulations specifics | Refer to Section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR). |
| Environmental Canadian regulations specifics | Refer to Section 3 for ingredient(s) of the DSL |
| Safety/health/environmental outside regulations specifics | |
| United States OSHA information: This product is regulated according to OSHA (29 CFR). | |
| United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14. | |
| United States TCSA information: Refer to the ingredients listed in Section 3. | |

Section 16. Other information

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|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Date of the latest revision of the safety data sheet | January 14, 2022 version 3 (NSS ENTREPRISE INC.) |
| Corrections | Complete review |
| References | Safety Data Sheets from manufacturer/supplier & from Canadian Centre for Occupational Health and Safety, CCOHS. |
| Abbreviations | |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ATE | Acute toxicity estimate |
| CAS | Chemical Abstract Service |
| DSL | Domestic Substance List |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods Code |
| LC | Lethal concentration |
| LD | Lethal Dosage |
| NIOSH | National Institute for Occupational Safety and Health |
| NTP | National Toxicology Program (U.S.A.) |
| OSHA | Occupational Safety and Health Administration (U.S.A.) |
| PEL | Permissible Exposure Limit |
| STEL | Short-term Exposure Limit |
| TDG | Transport of dangerous goods in Canada |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |
| TWA | Time Weighted Average |
| WHMIS | Workplace Hazardous Materials Information System |

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier 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.