SAFETY DATA SHEET (SDS)

Section 1. Identification

Product identifier: CHEM 1000, Part A (Top Coat Polycarbamide)
Other means of identification: FF-LSG1-000-A
Recommended use and restrictions on use: Floor Coating
Initial supplier identifier: Chemtec 913 Michelin Laval Québec (Canada) H7L-5B6 450-629-1717
Emergency telephone number/restriction on use: Canada – CANUTEC Number 24 hours 613-996-6666

Classification of hazardous product (name of the category or subcategory of the hazard class)
Skin sensitization (Category 1)

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

Warning
H317 May cause an allergic skin reaction.

Prevention
P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear gloves/protective clothing/gloves/eye protection/face protection.

Response
IF ON SKIN: P302 + P352 Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical attention. P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal
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)
Diethyl fumarate
CAS number or other: 623-91-6
Concentration (%): < 30 %

Section 4. First-Aid Measures

Inhalation
IF INHALED: if overexposure remove person to fresh air and keep comfortable for breathing. If symptoms persist, get medical attention.

Ingestion
IF SWALLOWED: Prevent aspiration of vomit. If symptoms persist, seek medical attention. Do not give anything by mouth to an unconscious person.

Skin contact
IF ON SKIN: Take off contaminated clothing. Wash with soap and plenty of water (20- 30 minutes). If symptoms persist: Get medical attention. Wash contaminated clothing before reuse.

Eye contact
IF IN EYES, Rinse cautiously with water for several minutes (20 - 30 minutes). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritations persist: 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 monoxide (CO), toxic fumes, ammoniagas, nitrogen oxide.

Suitable and unsuitable extinguishing media
In case of fire: Use carbon dioxide (CO₂), dry chemical, alcohol resistant foam.

Special protective equipment and precautions for fire-fighters
During a fire, irritating/toxic fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment as required.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Evacuate non-emergency personnel. Isolate the area and prevent access. Control source of the leak. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8). Prevent the spill spread into drains, sewers, water supplies, or soil. Do not touch or walk through spilled material.

Methods and materials for containment and cleaning up
Avoid prolonged exposure. Stop leak if you can do it without risk. Spill should be contained with inert material and disposed into suitable retaining
area. Do not touch or walk through spilled material. Small volumes of liquid may be contained or absorbed into an appropriate absorbent. Keep away from all watercourses. Do not flush down storm or sanitary sewer. Dispose of in accordance with local, provincial and federal regulations.

Section 7. Handling and Storage

Precautions for safe handling
Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear gloves/protective clothing/gloves/eye protection/face protection.

Conditions for safe storage, including any incompatibilities
Store in a cool, well-ventilated area. Keep container closed when not in use. Do not handle or store near open flames, heat or other sources of ignition. 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. Storage temperature: 16 - 27 °C.

Section 8. Exposure Controls/Personal Protection

Control parameters (biological limit values or exposure limit values and source of those values)
Exposure limits: ACGIH – TLV-TWA Not available.

Appropriate engineering controls
Use product in well-ventilated areas. Do not spray the product. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Supply emergency safety/drench shower, eyewash station and washing facilities available in work area and near handling area. Where such systems are not effective, wear suitable personal protection equipment which performs satisfactorily and meets recognized standards.

Individual protection measures/personal protective equipment
Gloves: Neopren gloves or equivalent; Clothing: Shirts with long sleeves, long pants; Respiratory: Not required if working area is well ventilated. Use a NIOSH approved respirators if the exposure limits are unknown. Wipe up spillage and wash contaminated work clothing before re-use. Educate and train employees in the safe use and handling of this product. Follow all label instructions.

Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Appearance, physical state/colour</th>
<th>Odour</th>
<th>Odour threshold</th>
<th>pH</th>
<th>Melting/freezing point</th>
<th>Initial boiling point/range</th>
<th>Flash point</th>
<th>Evaporation rate</th>
<th>Flammability (solids and gases)</th>
<th>Upper and lower flammability/explosive limits</th>
<th>Vapour pressure</th>
<th>Vapour density</th>
<th>Relative density</th>
<th>Solubility</th>
<th>Partition coefficient - n-octanol/water</th>
<th>Auto-ignition temperature</th>
<th>Decomposition temperature</th>
<th>Viscosity</th>
<th>VOC</th>
<th>Other</th>
<th>None known</th>
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</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>Faint odor</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>&gt; 90°C</td>
<td>Not available</td>
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Section 10. Stability and Reactivity

Reactivity
Stable under normal conditions.

Chemical stability
Yes, Stable under the recommended storage and handling conditions prescribed.

 Possibility of hazardous reactions
Non under normal conditions of storage and use.

Conditions to avoid (static discharge, shock or vibration)
Excess heat.

Incompatible materials
Organic acid, mineral acid, peroxide, oxidizing agents, nitrous acid, sodium hypochlorite.

Hazardous decomposition products
Nitrogen oxide, carbon mono and dioxide (CO) (CO₂), nitrosamine, nitric acid, ammonia.

Section 11. Toxicological Information

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)
May cause an allergic skin reaction.

Symptoms related to the physical, chemical and toxicological characteristics
No specific information available.

Delayed and immediate effects (chronic effects from short-term and long-term exposure)
Skin Sensitization – May cause allergic skin reaction. Skin disorders and Allergies. 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)
CAS 623-91-6: Acute toxicity oral LD50-rat: 1,367mg/kg; ATE not available in this document.

### Section 12. Ecological Information

**Ecotoxicity (aquatic and terrestrial information)**

- **Toxicity to fish**: CAS 623-91-6; LC50: 66mg/l (Zebra fish (Brachydanio rerio) 96h);
- **Toxicity to Aquatic Invertebrates**: EC 50: 88.6 mg/l (Water flea (Daphnia magna) 48h);
- **Toxicity to Aquatic and Terrestrial Plants**: EC 50: 3110 mg/l (Green algae (Scenedesmus subspicatus) 72h); 111 mg/l, 72h.

**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

**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)**
- None

### Section 15. Regulatory Information

**Safety/health Canadian regulations specifics**
- 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**
- February 04, 2018 - version 1

**References**
- Safety Data Sheets from manufacturer/supplier & from Sigma-Aldrich.com & Echa.europe.eu

**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

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