SAFETY DATA SHEET (SDS)

Section 1. Identification

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

Section 2. Hazard Identification

Classification of hazardous product (name of the category or subcategory of the hazard class)
Acute toxicity, oral, dermal and inhalation (Category 4)
Skin corrosion/irritation (Category 2)
Skin sensitization (Category 1)
Serious eye damage/eye irritation (Category 2A)
Hazardous to the aquatic environment, long-term-hazard (Category 3)

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

Warning
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects

Prevention

Response
IF SWALLOWED: P301 + P312 Call a Poison Center/doctor if you feel unwell. P330 Rinse mouth.
IF ON SKIN: P302 + P352 Wash with plenty of water. P312 Call a POISON CENTER/doctor if you feel unwell. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash it before reuse.
IF INHALED: P304 + P340 Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell.
IF IN EYES: P305 + P351 + P338 Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention.

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

<table>
<thead>
<tr>
<th>Chemical name (common name/synonyms)</th>
<th>CAS number or other</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid epoxy resin</td>
<td>25068-38-6</td>
<td>50 - 90 %</td>
</tr>
<tr>
<td>Polymère en Bisphénol A / Epichlorohydrine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reactive Thinner</td>
<td>........</td>
<td>10 – 30 %</td>
</tr>
<tr>
<td>1,4-Butanediol Diglycidyl Ether</td>
<td>........</td>
<td>5 – 20 %</td>
</tr>
</tbody>
</table>

*Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s)*

Section 4. First-Aid Measures

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

Ingestion IF SWALLOWED: Immediately call a doctor. Prevent aspiration of vomit. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water.

Skin contact IF ON SKIN: Remove contaminated clothing, wash immediately with soap and water (20 - 30 minutes). If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands. If symptoms persist, seek medical attention.

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 irritation persists: Get medical attention.

Most important symptoms and effects (acute or delayed) Harmful if swallowed, in contact with skin or if inhaled. Causes skin irritation.
May cause an allergic skin reaction. Causes serious eye irritation.

### Section 5. Fire-Fighting Measures

**Specific hazards of the hazardous product (hazardous combustion products)**
- Smoke, fume, oxides of carbon.

**Suitable and unsuitable extinguishing media**
- In case of fire: Use Carbon dioxide (CO₂), dry chemical, water and 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. Eliminate all ignition sources (no smoking, flares, sparks or flames) in immediate area. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. 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. Do not touch or walk through spilled material. Spill should be contained with inert material and disposed into suitable retaining area. 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. Take precautionary measures against static discharges. 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. Wash hands/nails/face/eyes thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear gloves/protective clothing/goggles/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/quick-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: use suitable protective clothing to prevent any possibility of skin contact; Respiratory: Not required if working area is well ventilated. Use a NIOSH approved respirators if the exposure limits are unknown; Equipment: Safety glasses, chemical resistant. Special instructions for protection and hygiene: 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. 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>Liquid</th>
<th>Vapour pressure</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour</td>
<td>Faint odour</td>
<td>Vapour density</td>
<td>Not available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available</td>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
<td>Solubility</td>
<td>Not soluble</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>Not available</td>
<td>Partition coefficient - n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Initial boiling point/range</td>
<td>Not available</td>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 100 °C</td>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solids and gases)</td>
<td>Not available</td>
<td>VOC</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper and lower flammability/explosive limits</td>
<td>Not available</td>
<td>Other</td>
<td>None known</td>
</tr>
</tbody>
</table>

### 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
Acids, bases, amines, oxidizing agents.

Hazardous decomposition products
Chlorine hydrogen, carbon oxides.

Section 11. Toxicological Information

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)
Harmful if swallowed, in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. 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 – Animal genetic toxicity studies were negative; Carcinogenicity – , the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGBEBA is not classified as a carcinogen; Reproductive Toxicity – In animal studies, did not interfere with reproduction;
Specific Target Organ Toxicity — Single Exposure – Evaluation of available data suggests that this material is not an STOT-SE toxicant; Specific Target Organ Toxicity — Repeated Exposure – Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects;
Aspiration Hazard – Based on physical properties, not likely to be an aspiration hazard; Health Hazards Not Otherwise Classified – No data available.

Numerical measures of toxicity (ATE; LD50 & LC50)
CAS 25068-38-6 LD50 Oral - Rat - > 15,000 mg/kg; LD50 Dermal – Rabbit – 23,000 mg/kg; LC50 Inhalation – has not been determined; CAS 68609-97-2 LD50 Oral - Rat - > 2,000 mg/kg; LD50 Dermal – No data available; LC50 Inhalation – No data available; CAS 2425-79-8 LD50 Oral - Rat 1134 mg/kg; LD50 Dermal – Rabbit – 1130 mg/kg; LC50 Inhalation – Not available; ATE not available in this document.

Ecotoxicity (aquatic and terrestrial information)
Toxicity to fish: CAS: 25068-38-6 LC50: 1 – 10 mg/l (in the most sensitive species tested)/ LC50 2 mg/l (Oncorhynchus mykiss (rainbow trout), semi-static test, 96h; CAS 68609-97-2 LC50 >5000 mg/l (Rainbow trout) 96h; CAS: 2425-79-8 LC50: 24 mg/l (Danio rerio) 96h;
Toxicity to Aquatic Invertebrates: CAS: 25068-38-6 EC50: 1.8 mg/l (Water flea (Daphnia magna) 48h); CAS 68609-97-2 EC50: 7.2 mg/l (Daphnia magna) 48h; CAS: 2425-79-8 EC50: 75 mg/l (Daphnia magna) 48h
Toxicity to Algae and Aquatic Plants: CAS: 25068-38-6 EC50: 11 mg/l (Fresh water algae (Scenedesmus capricornutum) static test, 72h); CAS 68609-97-2 EC50: 843.75 mg/l/ 72h (Pseudokirchneriella subcapitata);
Toxicity to Bacteria: CAS: 25068-38-6 IC50: >42.6 mg/l. (Respiration rates, 18h).

Persistence and degradability CAS: 25068-38-6 12%, not easily biodegradable; CAS: 2425-79-8 Not readily biodegradable.
Bioaccumulative potential CAS: 25068-38-6 Bio-concentration potential is moderate; CAS: 2425-79-8 Bioaccumulation is unlikely low Pow -1.33.
Mobility in soil CAS: 25068-38-6 Potential for mobility in soil is low; CAS: 2425-79-8 The product is water soluble and may spread in water systems. Highly mobile in soils.

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) 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 | November 28, 2018 - version 1

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

Abbreviations

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

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