SAFETY DATA SHEET (SDS)

Section 1. Identification

Product identifier	CHEM 1000 HD PART A
Other means of identification	CHEM 1000 HD A
Recommended use and restrictions on use	Floor 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)
Acute toxicity if swallowed (Category 4)
Hazardous to the aquatic environment, long term hazard (Category 3)
Combustible liquid (Category 4)

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

Warning
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H340 May cause genetic defects.
H350 May cause cancer.
H412 Harmful to aquatic life with long lasting effects
P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. P261Avoid breathing dust/fume/gas/mist/vapours/spray. P264Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273Avoid release to the environment. P280Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352IF ON SKIN: Wash with plenty of water. P308+P313If exposed or concerned: Get medical advice.
P321 Specific treatment see part 4P333+P313If skin irritation or rash occurs: Get medical advice/attention. P362+P364
Take off contaminated clothing and wash it before reuse. P403+P233Store in a well-ventilated place. Keep container tightly closed. P405Store 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 (%)**
Aspartic Acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester	136210-30-5	60-80
Diethyl fumarate	623-91-6	2.5-10
Dipropylene glycol dimethyl ether	111109-77-4	10-20

* 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: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur.
Ingestion	IF SWALLOWED: If ingestion is suspected, contact physician or poison center immediately. Do not induce vomiting. Rinse mouth with water. Give two glasses of water for dilution. Never give anything by mouth to an unconscious person.
Skin contact	IF ON SKIN**:** Immediately flush skin with plenty of water and neutral soap. Remove contaminated clothing. Wash clothing before reuse. In case of changes on the skin(stinging, redness, rashes, blisters) get immediate medical attention.
Eye contact	IF IN EYES**:** In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Do not rub affected area. Obtain medical attention. Remove contact lenses, if present and easy to do. Continue rinsing.
Additional Information	Do not leave the victim unattended. No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it or wear glove
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)

By thermal decomposition or combustion, emit: Oxides de carbon (CO, CO_2), Nitrogen oxides (NOx), Amines. Ammonia gas may be liberated at high temperatures. Formation of toxic gases is possible during heating or in case of fire. Formation of toxic gases is possible during heating or in case of fire.

Suitable and unsuitable extinguishing media

Use dry sand, alcohol resistant foam or dry chemical.

Special protective equipment and precautions for fire-fighters

Wear self-contained positive pressure breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

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

Personal precautions, protective equipment, and emergency procedures: Evacuate all non-essential personnel. Do not get direct personal contact with product. Do not breath dust, fume, gas, mist vapours or spray. Wear proper protective equipment. Eliminate all sources of ignition (no smoking, flares, sparks, or flames in immediate area). Ventilate area. Dike area to prevent spreading. Prevent runoff into drains, sewers, and other waterways. Inform responsible authorities in case of accidental release. Do not allow product to reach sewage system of any water course. Shovel or pump to properly identified drum or salvage tank. Absorb residual material with sand or other absorbent material. Spilled material and water rinses are classified as chemical waste and must be disposed of in accordance with current local, provincial, and federal regulations.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry and well-ventilated area. Keep containers tightly closed. Storage temperature: store at 5-30 °C. Store separate from food products. Keep from freezing.

Section 8. Exposure controls/Personal protection

Control parameters (biological limit values or exposure limit values and source of those values)

Exposure limits: Dipropylene glycol dimethyl ether: 20ppm (TWA)

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

Skin protection: Chemical resistant gloves. Nitrile or fluorinated gloves are recommended. Wear a lab coat and safety boots per local regulations.
Respiratory: Full face mask with organic vapor cartridge, Type A filter (BP >65^{0}C)
Eye protection: tightly sealed goggles
Special instructions for protection and hygiene: Eye wash fountain and safety shower be in proximity. Employees should wash their hands and face before eating, drinking, or using tobacco products.

Section 9. Physical and chemical properties

Appearance, physical state/colour	Liquid clear to yellowish	**Vapour pressure**	Not available
Odour	Not available	**Vapour density**	Not available
Odour threshold	Not available	**Relative density**	1.02-1.05(20°C)
pH	Not available	**Solubility**	Negligible
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	65°C closed cup	**Decomposition temperature**	Not available
Evaporation rate	Not available	**Viscosity**	140-180 cPs(20°C)
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

None known.

Chemical stability

Stable at normal temperature and pressures

Possibility of hazardous reactions

None known

Conditions to avoid (static discharge, shock, or vibration)

Contact with incompatible materials. Avoid high temperatures.

Incompatible materials

Oxidizing agents, acid, and isocyanate.

Hazardous decomposition products

By combustion or thermal decomposition may produce: Carbon oxides (CO, CO_2) nitrogen oxides (NOx), amines. Ammonia gas may be liberated at high temperatures.

Section 11. Toxicological information

Information on the likely routes of exposure (inhalation, ingestion, skin, and eye contact)

Inhalation. Eye contact. Skin contact. Ingestion.

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

Effect of acute exposure): May cause allergic skin reaction.
Effects of chronic exposure: In animal, effects have been reported on the following organs: adrenal gland, kidney, liver.
Acute oral toxicity: ATE (mixture): > 2000 mg/kg.
Acute dermal toxicity: ATE (mixture): > 2000 mg/kg.
Acute inhalation toxicity: ATE (mixture): > 20 mg/L (vapour).

Numerical measures of toxicity (ATE; LD_{50} & LC_{50})

136210-30-5: LD50 Oral – Rat > 2.000 mg/kg; **LD50 Dermal – Rat >** 2.000 mg/kg. **LC50 Inhalation-Rat** >4.224mg/L
623-91-6 : LD50 Oral – Rat > 1780 mg/kg.
111109-77-4 : LD50 Oral – Rat ,3300 mg/kg; **LD50 Cutané –Rabbit >** 2000 mg/kg, **LC50 Inhalation-Rat,4h, vapour** >5.25mg/L

Section 12. Ecological information

Ecotoxicity (aquatic and terrestrial information)	**136210-30-5:** LC50: 66mg/L (96h) Brachydanio rerio, EC50: 88.6 mg/L (48h) Daphnia magna **111109-77-4:** LC50: >1000 mg/L, static test, 96h, Poecilia reticulata (Guppy) , LC50 : >1000 mg/L, static test , 24h, Daphnia magna(water flea)
Persistence and degradability	Material is inherently biodegradable
Bioaccumulative potential	Bioconcentration potential is low (BFC<100 or Log Pow<3).
Mobility in soil	Potential for mobility in soil is very high (Koc between 0 and 50)
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 as an industrial waste in a manner acceptable to good waste management practice and in accordance with applicable 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)	Keep from freezing.
Environmental hazards (IMDG or other)	None
Bulk transport (usually more than 450 L in capacity)	None

Section 15. Regulatory information

CEPA status: Ingredients of this mixture appears on DSL.
Hazardous Products Regulations: This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and this document contains all the information required by the Hazardous Products Regulations.
TSCA: Ingredients of this mixture appears on TSCA inventory

Section 16. Other information

Date of the latest revision of the safety data sheet	September ,25, 2023 version 1
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

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