

## SAFETY DATA SHEET (SDS)

## Section 1. Identification

<b>Product identifier</b>	CHEM 3000 B
<b>Other means of identification</b>	CHEM 3000 B; CHEM 3000 PART B
<b>Recommended use and restrictions on use</b>	Floor Coating
<b>Initial supplier identifier</b>	CHEMTEC; 4117 Industriel; Laval; Québec; Canada; H7L 6B9 <a href="mailto:info@epoxychemtec.com">info@epoxychemtec.com</a> T 450-629-1717
<b>Emergency telephone number/restriction on use</b>	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 corrosion/irritation (Category 2)  
Sensitization (skin) (Category 1)  
Eye damage / irritation (Category 2A)  
Acute toxicity (inhalation) (Category 4)  
Sensitization (respiratory) (Category 1)  
Specific target organ toxicity (single exposure) (Category 3)  
Carcinogenicity (Category 1)  
Hazardous to the aquatic environment –chronic hazard (Category 4)

## 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  
H350 May cause cancer  
H413 May cause long lasting harmful effects to aquatic life or repeated exposure.  
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.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash skin 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. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P284 In case of inadequate ventilation wear respiratory protection.  
P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice. P312 Call a POISON CENTER or a doctor if you feel unwell.  
P321 Specific treatment see part 4. P333+P313 If skin irritation or rash occurs: Get medical advice. P337+P313 If eye irritation persists: Get medical advice/attention. P342+P311 If experiencing respiratory symptoms: call a POISON CENTER or doctor. P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well –ventilated place. Keep container tightly closed P405 Store locked up.  
P501 Dispose of contents/container into safe container in accordance with local, regional, or national regulations.

**Other hazards known** | Percentage of the mixture consisting of ingredient (s) of unknown toxicity: oral 26%; dermal 26%; inhalation 26%.

## Section 3. Composition/information on ingredients

Chemical name (common name/synonyms)	CAS number or other	Concentration (%)
Allophanate modified diphenylmethane diisocyanate	201615-11-4	30-60
4,4-diphenylmethane diisocyanate (MDI)	101-68-8	30-60
Aromatic hydrocarbons	68477-30--5	10-30
Triethoxy (3-isocyanatopropyl) silane	24801-88-5	0.5-1.5
Diphenylmethane diisocyanate (MDI) mixed isomers	26447-40-5	0.1-1.0
Naphthalene	91-20-3	0.1-1.0

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

## Section 4. First-aid measures

<b>Inhalation</b>	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.
<b>Ingestion</b>	IF ON SKIN: Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. .
<b>Skin contact</b>	IF ON SKIN: Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

<b>Eye contact</b>	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.		
<b>Additional Information</b>			
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.			
<b>Section 5. Fire-fighting measures</b>			
<b>Specific hazards of the hazardous product (hazardous combustion products)</b>			
By thermal decomposition or combustion, emit: Oxides de carbon (CO, CO <sub>2</sub> ). Formation of toxic gases is possible during heating or in case of fire.			
<b>Suitable and unsuitable extinguishing media</b>			
In case of fire: Use water spray, carbon dioxide (CO <sub>2</sub> ) alcohol resistant foam or dry chemical. For large fire use alcohol resistant foam. Do not use full water jet.			
<b>Special protective equipment and precautions for fire-fighters</b>			
Wear self-contained positive pressure breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. Keep containers cool by spraying with water if exposed to fire.			
<b>Section 6. Accidental release measures</b>			
<b>Personal precautions, protective equipment, and emergency procedures</b>			
Evacuate all non-essential personnel. Ventilate. Eliminate all sources of ignition. Avoid all personal contact. Wear proper protective equipment. Dike area to prevent spreading. Prevent runoff into drains, sewers, and other waterways.			
<b>Methods and materials for containment and cleaning up</b>			
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 regulation.			
<b>Environmental Precautions</b>			
Avoid release to the environment. Inform responsible authorities of all environmental releases. Do not allow product to reach sewage system of any water course. .			
<b>Section 7. Handling and storage</b>			
<b>Precautions for safe handling</b>			
Avoid breathing mists or vapors. Avoid release to the environment. Avoid skin and eye contact. Wear appropriate protective equipment when handling this material. Avoid eating and drinking while using this product. Employees should wash hands and face before eating or drinking. Use adequate ventilation. Handle and open container with care. Keep ignition sources away - Do not smoke. Protect from heat.			
<b>Conditions for safe storage, including any incompatibilities</b>			
Store in a cool, dry, and well-ventilated area. Keep containers tightly closed when not in use. Keep from freezing. Storage temperature: store at 21-35 °C (70-95°F).			
<b>Section 8. Exposure controls/Personal protection</b>			
<b>Control parameters (biological limit values or exposure limit values and source of those values)</b>			
Exposure limits: CAS 101-68-8 ACGIH TLV-TWA 0,005 ppm; CAS 91-20-3 ACGIH TLV-TWA 10 ppm; ACGIH TLV-STEL 15ppm; OSHA PEL TWA 10ppm ; NIOSH REL TWA 10ppm			
<b>Appropriate engineering controls</b>			
Use product in well-ventilated areas. 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.			
<b>Individual protection measures/personal protective equipment</b>			
<b>Skin protection:</b> Chemical resistant gloves. Nitrile gloves are recommended. Wear shirts with long sleeves, long pants or a lab coat and safety boots.			
<b>Respiratory:</b> Full face mask with organic vapor cartridge, Type A filter (BP >65°C)			
<b>Eye protection:</b> tightly sealed goggles.			
<b>Special instructions for protection and hygiene:</b> 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.			
<b>Section 9. Physical and chemical properties</b>			
<b>Appearance, physical state/colour</b>	Liquid/Yellowish	<b>Vapour pressure</b>	Not available
<b>Odour</b>	Not available	<b>Vapour density</b>	Not available
<b>Odour threshold</b>	Not available	<b>Relative density</b>	1.11-1.13
<b>pH</b>	Not available	<b>Solubility</b>	Not available
<b>Melting/freezing point</b>	Not available	<b>Partition coefficient - n-octanol/water</b>	Not available
<b>Initial boiling point/range</b>	Not available	<b>Auto-ignition temperature</b>	Not available
<b>Flash point</b>	Not available	<b>Decomposition temperature</b>	Not available
<b>Evaporation rate</b>	Not available	<b>Viscosity</b>	100-150 cps (20°C)
<b>Flammability (solids and gases)</b>	Not available	<b>VOC</b>	Not available
<b>Upper and lower flammability/explosive limits</b>	Not available	<b>Other</b>	None known

<b>Section 10. Stability and reactivity</b>	
<b>Reactivity</b>	
Not available.	
<b>Chemical stability</b>	
This product is stable under normal temperatures and pressures.	
<b>Possibility of hazardous reactions</b>	
Hazardous polymerization will not occur.	
<b>Conditions to avoid (static discharge, shock, or vibration)</b>	
Heat. Direct sunlight.	
<b>Incompatible materials</b>	
Strong oxidizers agents.	
<b>Hazardous decomposition products</b>	
By thermal decomposition. Carbon oxides (CO, CO <sub>2</sub> )	
<b>Section 11. Toxicological information</b>	
<b>Information on the likely routes of exposure (inhalation, ingestion, skin, and eye contact)</b>	
Skin contact. Eye contact. Inhalation	
<b>Symptoms related to the physical, chemical, and toxicological characteristics</b>	
Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
<b>Delayed and immediate effects (chronic effects from short-term and long-term exposure)</b>	
<b>Effects of chronic exposure:</b> May cause cancer. <b>Acute oral toxicity:</b> ATE (mixture): > 2000 mg/kg. <b>Acute dermal toxicity:</b> ATE (mixture): > 2000 mg/kg. <b>Acute inhalation toxicity:</b> ATE mix=0.5-2.0 mg/L. The test atmosphere generated in the animal study is not representative of workplace environments, how the substance is placed on the market, and how it can reasonably be expected to be used. Therefore, the test result cannot be directly applied for the purpose of assessing hazard. Based on expert judgement and the weight of the evidence, a modified classification for acute inhalation toxicity is justified. <b>Carcinogenicity of product:</b> 91-20-3 Suspected of causing cancer.26447-40-5: Suspected of causing cancer. 68477-30-5 May cause cancer. <b>Mutagenicity:</b> None known. <b>Reproductive effects:</b> None known.	
<b>Numerical measures of toxicity (ATE; LD<sub>50</sub> &amp; LC<sub>50</sub>)</b>	
<b>201615-11-4 :</b> LD50 Orale - Rat>2000 mg/kg LD50 Cutané – Lapin>9400 mg/kg LC50 Inhalation-Rat0.49 mg/L (4h, aérosol, rat). <b>101-68-8:</b> LD50 Orale - Rat>7616 mg/kg LD50 Cutané – Lapin1260 mg/kg LD50 Inhalation-Rat1.4 mg/L (rat,4h, vapeur) <b>24801-88-5:</b> LD50 Orale - Rat710 mg/kg LD50 Cutané – Lapin>9400 mg/kg LC50 Inhalation-Rat0.36 mg/L (4h, rat) <b>26447-40-5:</b> LD50 Orale - Rat>2000 mg/kg LD50 Cutané – Lapin>9400 mg/kg LD50 Inhalation-Rat0.49 mg/L (4h, aérosol, rat) <b>91-20-3:</b> LD50 Orale - Rat490 mg/kg LD50 Cutané – Lapin>2500 mg/kg LC50 Inhalation-Rat>20 mg/L (4h, rat)	
<b>Section 12. Ecological information</b>	
<b>Ecotoxicity (aquatic and terrestrial information)</b>	Harmful to the aquatic life. Harmful to the aquatic life with long lasting effect. <b>201615-11-4</b> LC0 : >1000 mg/l (Zebra Fish) 96h EC50 : >1000 mg/l (Daphnia magna) 24h EC50 : >100 mg/l (3h, micro-organismes des boues activées.) <b>101-68-8</b> LC50: >500 mg/l (Zebra Fish) 24h EC50: >500 mg/l (Daphnia magna) 24h
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Other adverse effects</b>	No further relevant information available.
<b>Section 13. Disposal considerations</b>	
<b>Information on safe handling for disposal/methods of disposal/contaminated packaging</b>	
Dispose of as an industrial waste in a manner acceptable to good waste management practice and in accordance with applicable local, provincial or federal regulations.	
<b>Section 14. Transport information</b>	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations</b>	
Not regulated	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)</b>	
Not regulated	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)</b>	
Not regulated	
<b>Special precautions (transport/conveyance)</b>	May also be shipped as a LIMITED QUANTITY in accordance with TDG.
<b>Environmental hazards (IMDG or other)</b>	Marine Pollutant
<b>Bulk transport (usually more than 450 L in capacity)</b>	Possible

**Section 15. Regulatory information**

**CEPA status:** Some component(s) of this product do not appear on the DSL.EMCO-INORTECH ULC monitors imports and ensures that this product will be imported into Canada in accordance with the new substances' notification regulations. Contact your account manager for more information regarding reportable quantities, etc.

**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** | August 03, 2020 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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