

SAFETY DATA SHEET (SDS)

Section 1. Identification

Product identifier	CHEM 1000 , Part B (Top Coat Polycarbamide)
Other means of identification	FF-LSEG1-B
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

Section 2. Hazard Identification

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

Skin corrosion/irritation (Category 2)
 Serious eye damage/eye irritation (Category 2B)
 Skin sensitization (Category 1)
 Acute toxicity, Inhalation (Category 4)
 Sensitisation Respiratory (Category 1)
 Specific target organ toxicity, single exposure, Respiratory track irritation (STOT, SE) (Category 3)
 Specific target organ toxicity, repeated exposure (STOT, RE) (Category 2)

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



Warning

H315 + H320 Causes skin and eye irritation.
 H317 May cause an allergic skin reaction.
 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

Prevention

P260 + P261 Do not/Avoid breathing dust/fume/gas/mist/vapors/spray. P264 Wash hands/nails/face/eyes thoroughly after handling. P270 Do not eat, drink or smoke when using this product P271 Use only outdoors or in a well ventilated area P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear gloves/protective clothing/gloves/eye protection/face protection. P284 (In case of inadequate ventilation) wear respiratory protection.

Response

IF ON SKIN: P302 + P352 Wash with plenty of water. P332 + P313 If skin irritation 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 doctor if you feel unwell. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor
 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.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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)	CAS number or other	Concentration (%)
1,6 -Hexamethylene Diisocyanate Based Polyisocyanate	28182-81-2	< 90 %
Aliphatic diisocyanate	822-06-0	< 0,5 %
Aliphatic polyisocyanate	-----	< 20 %

Section 4. First-Aid Measures

Inhalation	IF INHALED: If overexposure remove person to fresh air and keep comfortable for breathing. Administer oxygen or artificial respiration as needed. Asthmatic symptoms may develop and may be immediate or delayed up to several hours. Extreme asthmatic reactions can be life threatening. If symptoms persist, seek medical attention.
Ingestion	IF SWALLOWED: Immediately call a doctor. Prevent aspiration of vomit. Do not give anything by mouth to an unconscious

	person. If symptoms persist, seek medical attention.		
Skin contact	IF ON SKIN: Immediately take off contaminated clothing and shoes, wash immediately with soap and plenty of water (20 - 30 minutes). Use lukewarm water if possible. If skin irritation occurs: Get medical attention. Wash clothing before reuse. If symptoms persist, seek medical attention. For sever exposures, immediately get under safety shower and begin rinsing.		
Eye contact	IF IN EYES, In case of contact, immediately rinse cautiously with water for several minutes (20 - 30 minutes). Use lukewarm water if possible. 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 and 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.		
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.			
Suitable and unsuitable extinguishing media			
In case of fire: Use carbon dioxide (CO ₂), dry chemical.			
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. 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			
Do not/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. Wear gloves/protective clothing/gloves/eye protection/face protection. (In case of inadequate ventilation) wear respiratory 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 CAS 28182-81-2: 0.5 mg/m ³ ; CAS 822-06-0: 0.02 mg/m ³			
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: 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; 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			
Appearance, physical state/colour	Liquid	Vapour pressure	Not available
Odour	Faint odor	Vapour density	Not available
Odour threshold	Not available	Relative density	Not available
pH	Not available	Solubility	Reacts
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	> 150°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			
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			
Acid, amine, humidity, alcohol, metal, oxidizing agents.			
Hazardous decomposition products			
Cyanate and isocyanate, acid, cyanogen, nitrile, hydrogen cyanide, carbon mono and dioxide.			
Section 11. Toxicological Information			
Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)			
Causes skin and 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			
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 28182-81-2: Acute Oral Toxicity: LD ₅₀ : > 5,000 mg/kg (rat) Estimated Value; Acute Inhalation Toxicity: LC ₅₀ : 390 – 453 mg/m ³ , aerosol, 4 h (rat). LD ₅₀ : 20.8 mg/m ³ , 3 h; Acute dermal toxicity: LD ₅₀ : > 5,000 mg/kg (rabbit); ATE not available in this document			
Section 12. Ecological Information			
Ecotoxicity (aquatic and terrestrial information):			
Acute and Prolonged Toxicity to Fish: CAS 28182-81-2: LC ₅₀ : > 100 mg/L (Zebra fish (Brachydanio rerio) 96h) ; Acute Toxicity to Aquatic Invertebrates: CAS 28182-81-2: EC ₅₀ : > 100 mg/L (Water flea (Daphnia magna) 48 h); Toxicity to Aquatic Plants: CAS 28182-81-2: EC ₅₀ : > 1,000 mg/L, (Green algae (Scenedesmus subspicatus) 72 h); Toxicity to Microorganisms: CAS 28182-81-2: EC ₅₀ : > 1,000 mg/L, (Activated sludge microorganism, 3 h).			
Persistence and degradability	CAS 28182-81-2: 0%, Exposure time: 28 Days, Not readily biodegradable.		
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.eurpea.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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