



SAFETY DATA SHEET (SDS)

Section 1. Identification

Product identifier	LABPOX 30 –Color- Part A (Top Coat Epoxy)
Other means of identification	LP30 -000-A - Color
Recommended use and restrictions on use	Floor Coating
Initial supplier identifier	LabSurface. 101-1079 des Forges, Terrebonne, J6Y0J9, Qué (Canada) Tél. (450) 966-9000
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)
Carcinogenicity (Category 2)
Hazardous to the aquatic environment, acute-hazard (Category 2)
Hazardous to the aquatic environment, long-term-hazard (Category 2)

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
H351 Suspected of causing cancer.
H401 Toxic to aquatic life
H411 Toxic to aquatic life with long lasting effects

Prevention

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/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. P273 Avoid release to the environment. P280 Wear gloves/protective clothing/gloves/eye protection/face protection.

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. 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.
P308 + P313 IF exposed or concerned: Get medical attention.

P391 Collect spillage

Storage

P405 Store locked up.

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 (%)*
Polymère en Bisphénol A / Epichlorohydrine	25068-38-6	> 70 %
2,2'-[1,4-Butanediylbis(oxymethyken)bis[oxirane]	2425-79-8	< 10 %
Benzyl alcohol	100-51-6	< 15 %
Other colors may contain		
Titanium dioxide	13463-67-7	5 – 20 %
Amorphous silica	7631-86-9	< 2 %



Aluminium hydroxide	21645-51-2	< 2 %
Carbon black	1333-86-4	< 25 %
*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. Suspected of causing cancer.	
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)		
Smoke, fume, oxides of carbon.		
Suitable and unsuitable extinguishing media		
In case of fire: Use Carbon dioxide (CO ₂), 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		
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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/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 CAS 1333-86-4 – ACGIH – TLV-TWA 3 mg/m ³ & PEL-TWA 3.5 mg/m ³ ; CAS 13463-67-7 ACGIH – TLV-TWA 10 mg/m ³ & PEL-TWA 10 mg/m ³ ; TWA (breathable dust fraction) 3 mg/m ³ ; CAS 7631-86-9 PEL-TWA 80 mg/m ³ ; CAS 21645-51-2 ACGIH – TLV-TWA 1 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/color	Liquid	Vapour pressure	Not available
Odour	Faint odor	Vapour density	Not available
Odour threshold	Not available	Relative density	Not available
pH	Not available	Solubility	Not soluble
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	> 100 °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
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. Suspected of causing cancer.
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 – Ingredients listed by IARC, ACGIH, NTP or OSHA; 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 LD ₅₀ Oral - Rat - > 15,000 mg/kg; LD ₅₀ Dermal – Rabbit – 23,000 mg/kg; LC ₅₀ Inhalation – has not been determined; CAS 2425-79-8 LD ₅₀ Oral - Rat 1134 mg/kg; LD ₅₀ Dermal – Rabbit – 1130 mg/kg; LC ₅₀ Inhalation – Not available; CAS 100-51-6 LD ₅₀ Oral - Rat - > 1230-3100 mg/kg; LD ₅₀ Dermal – Rabbit – 2000 mg/kg; LC ₅₀ Inhalation – Not; CAS 13463-67-7 LD ₅₀ Oral - Rat - > 5,000 mg/kg; LD ₅₀ Dermal – Rabbit – 10,000 mg/kg; LC ₅₀ Inhalation – 6.82 mg/l exposure time 4h; ATE not available in this document.

Section 12. Ecological Information

Ecotoxicity (aquatic and terrestrial information)	
Toxicity to fish CAS: 25068-38-6 LC ₅₀ : 1 – 10 mg/l (in the most sensitive species tested)/ LC ₅₀ 2 mg/l (Oncorhynchus mykiss (rainbow trout), semi-static test, 96 Hour ; CAS: 2425-79-8 LC ₅₀ : 24 mg/l (Danjo rerio) 96 Hour; CAS 100-51-6 Bluegill (Lepomis macrochirus) 10 mg/l, 96h; CAS 13463-67-7 LC ₅₀ : > 1,000 mg/l (Pimephales promelas) 96 Hour;	
Toxicity to Aquatic Invertebrates: CAS: 25068-38-6 EC ₅₀ : 1.8 mg/l (Water flea (Daphnia magna) 48h) ; CAS: 2425-79-8 EC ₅₀ : 75 mg/l (Daphnia magna) 48h; CAS 13463-67-7 EC ₅₀ : >100 mg/l (Daphnia magna –water flea) 48h;	
Toxicity to Algae and Aquatic Plants: CAS: 25068-38-6 EC ₅₀ : 11 mg/l (Fresh water algae (Scenedesmus capricornutum) static test, 72h);	
Toxicity to Bacteria CAS: 25068-38-6 IC ₅₀ : >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	Toxic to aquatic life. Toxic 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	
UN 3082; ENVIRONMENTAL HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (BENZYL ALCOHOL); CLASS: 9; PG: III.	
UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)	
UN 3082; ENVIRONMENTAL HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (BENZYL ALCOHOL); CLASS: 9; PG: III.	
UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)	
UN 3082; ENVIRONMENTAL HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (BENZYL ALCOHOL); CLASS: 9; PG: III.	
Special precautions (transport/conveyance)	None
Environmental hazards (IMDG or other)	Marine Pollutant
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.	
California Proposition 65: For Color, White and Black WARNING: This product contains Titanium dioxide (CAS 13467-67-7) & Carbon black (CAS 1333-86-2) known to the State of California to cause cancer or other reproductive harm. Benzyl Alcohol (CAS 100-51-6) Not listed.	
Section 16. Other Information	
Date of the latest revision of the safety data sheet	March 10, 2021 - version 03
Corrections	Sections 1; 2; 3; 4; 7; 8; 9; 11; 15
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
DISCLAIMER: Labsurface expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages. Users are responsible to verify whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. In order to meet our strict requirements, we are continuously testing our coatings and on occasion, formulations may be modified to improve certain properties within each coating. Information and data included in this reference document may not be up to date as of the date of reference.	



SAFETY DATA SHEET (SDS)

Section 1. Identification

Product identifier	LABPOX 30 Fast-Cure, Part B (Top Coat Epoxy)
Other means of identification	LP30FC-B
Recommended use and restrictions on use	Floor Coating
Initial supplier identifier	LabSurface. 101-1079, rue des Forges, Terrebonne, J6Y 0J9, Qué (Canada) Tél. (450) 966-9000
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)

Flammable liquids (Category 4)
Acute toxicity, oral, dermal and inhalation (Category 4)
Skin corrosion/irritation (Category 1A)
Skin sensitisation (Category 1)
Serious eye damage/eye irritation (Category 1)
Sensitisation respiratory (Category 1)
Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3)
Reproductive toxicity (Category 1A)
Reproductive toxicity, effects on or via lactation (Additional category)
Specific target organ toxicity, repeated exposure (category 1)
Hazardous to the aquatic environment short/long term hazard (Category 3)

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



Warning

H227 Combustible liquid
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 May cause respiratory irritation
H360 May damage fertility or the unborn child
H362 May cause harm to breast-fed children
H372 Specific target organ toxicity, repeated exposure
H412 Harmful to aquatic life with long lasting effects

Prevention

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 P260+P261 Do not/Avoid breathing dust/fume/gas/mist/vapors/spray. P263 Avoid contact during pregnancy and while nursing 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 P273 Avoid release to the environment. P280 Wear gloves/protective clothing/gloves/eye protection/face protection P284 (In case of inadequate ventilation) wear respiratory protection.

Response

IF SWALLOWED: P301 + P312 Immediately call a Poison Center/doctor if you feel unwell. P330 Rinse mouth. P331 Do NOT induce vomiting.
IF ON SKIN: P302 + P352 Wash with plenty of water. P312 Immediately call a Poison Center/doctor if you feel unwell.
IF ON SKIN/ OR HAIR: P303 + P361 + P353 Take off immediately all contaminated clothing. Wash with plenty of water (or shower). 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. P310 Immediately call a POISON CENTER. 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. P310 Immediately call a POISON CENTER
IF EXPOSED OR CONCERNED: P308 + P313 Get medical attention.
IN CASE OF FIRE P370 + P378 Use manufacturer/supplier or the competent authority to specify appropriate media

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.



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 Ingrédients		
Chemical name (common name/synonyms)	CAS number or other	Concentration (%)*
Polyetheramine	9046-10-0	10 – 30%
Isophorone Diamine	2855-13-2	10 – 30 %
HMDA	1761-71-3	10 – 30 %
Benzyl alcohol	100-51-6	0,2 - 2 %
Polymère en Bisphénol A / Epichlorohydrine	25068-38-6	5 - 15%
Styrenated Phenol	61788-44-1	5 - 15%
Aminoethypiperazine	140-31-8	5 - 25%
Trade Secret	-	1 - 10 %
Bisphenol-A	80-05-7	3 - 15 %
Benzyl dimethylamine	103-83-3	1 - 5 %
*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 not breathing, give artificial respiration or give oxygen by trained personnel. If symptoms persist, seek medical attention.	
Ingestion	IF SWALLOWED: Immediately call a doctor. Do NOT induce vomiting. Prevent aspiration of vomit. Rinse mouth thoroughly with water. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing.	
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. Suitable emergency safety shower facility should be immediately available. Discard or decontaminate footwear 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 irritation persists: Get medical attention. Suitable emergency safety shower facility should be immediately available. Do not attempt to neutralize with chemical agents.	
Most important symptoms and effects (acute or delayed)	Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May damage fertility or the unborn child. May cause harm to breast-fed children. Specific target organ toxicity, 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)		
Oxides of carbon and nitrogen.		
Suitable and unsuitable extinguishing media		
In case of fire: Use Carbon dioxide (CO ₂), dry chemical and alcohol resistant foam. Do not use direct water stream.		
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. 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		
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources No smoking. Do not/Avoid breathing dust/fume/gas/ mist/vapors/spray. Avoid contact during pregnancy and while nursing. 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/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 labeled 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 140-31-8: 0,05 mg/m ³ (skin, DSEN); CAS 80-05-7: 2 mg/m ³ (fraction and vapor) ; CAS 100-51-6: 10 ppm. ; CAS 103-83-3: 1 ppm.			
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: A half face piece particulate respirator may be worn for high exposure concentration. 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 / Yellow	Vapour pressure	Not available
Odour	Amine	Vapour density	Not available
Odour threshold	Not available	Relative density	Not available
pH	Not available	Solubility	Slightly soluble in water
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	> 100 °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, flames, ignition sources and incompatibles.			
Incompatible materials			
Avoid contact with oxidizing agents, strong acids, strong bases acrylates, metals, absorbent, materials such as: Ground corn cobs.			
Hazardous decomposition products			
Ammonia, Ethylenediamine. Phenol. Volatile amines. Phenolics.			
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 severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May damage fertility or the unborn child. May cause harm to breast-fed children. Specific target organ toxicity, 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 skin irritation if contact frequently. Respiratory Sensitization – May cause severe respiratory system irritation; Germ Cell Mutagenicity – Not available; Carcinogenicity – Not listed in IARC (International Agency for Research on Cancer) Category; Reproductive Toxicity – Bisphenol A affected reproduction in rats and mice, but only at high exposure levels that exceeded the body's capacity to metabolize and deactivate the chemical; Specific Target Organ Toxicity — Single Exposure – Not available; Specific Target Organ Toxicity — Repeated Exposure – Contains component(s) which have been reported to cause effects on the following organs in animals: liver, central nervous system, muscles, thymus, urinary tract, respiratory tract; Aspiration Hazard – Not available; Health Hazards Not Otherwise Classified – No data			



available.	
Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀)	
CAS 100-51-6 LC ₅₀ Inhalation – Rat 11 mg ; 4hr/vapour; CAS 103-83-3 LC ₅₀ Inhalation Rat 2,05 mg ; 4hr/vapour; Trade Secret LC ₅₀ Inhalation Mouse > 3.636 mg/l vapour; CAS 9046-10-0 LD ₅₀ Oral – Rat 242 mg/kg; ATE not available in this document.	
Section 12. Ecological Information	
Ecotoxicity (aquatic and terrestrial information)	
Fish toxicity CAS (140-31-8) LC ₅₀ /EC ₅₀ : between 10 and 100 mg/l (in the most sensitive species tested) LC ₅₀ : 2,190 mg/l, Pimephales promelas (fathead minnow), static test, 96h; CAS (Trade Secret) LC ₅₀ 0.05 mg/l Fish, static test, 96 h; CAS (80-05-7) LC ₅₀ /EC ₅₀ : between 1 and 10 mg/l in the most sensitive species tested). LC ₅₀ : 4.6 mg/l Fathead minnow (Pimephales promelas), 96h. LC ₅₀ : 9.4 mg/l Atlantic silverside (Menidia menidia), 96h; CAS (100-51-6) LC ₅₀ /EC ₅₀ /EL ₅₀ /LL ₅₀ : >100 mg/l in the most sensitive species tested). LC ₅₀ : 460 mg/l, (Pimephales promelas (fathead minnow)), Static, 96h; CAS (103-83-3) LC ₅₀ /EC ₅₀ between 1 and 10 mg/l (in the most sensitive species tested). May increase pH of aquatic systems to > pH 10 which may be toxic to aquatic organisms. LC ₅₀ , 37.8 mg/l (Pimephales promelas (fathead minnow)), flow-through test, 96h;	
Invertebrate toxicity CAS (140-31-8) EC ₅₀ : 58 mg/l (Daphnia magna, (water flea) static test, 48h; CAS (Trade Secret) EC ₅₀ 0.0844 mg/l (Daphnia magna, (water flea) static test, 48h; CAS (80-05-7) EC ₅₀ : 10.2 mg/l (Daphnia magna (Water flea)), 48h, EC ₅₀ : 1.1 mg/l (saltwater mysid Mysidopsis bahia), 96h; CAS (100-51-6) EC ₅₀ : 230 mg/l (Daphnia magna (Water flea)), 48h; CAS (103-83-3) EC ₅₀ : > 100 mg/l, (Daphnia magna (Water flea)), static test, 48h;	
Aquatic plant and Algae toxicity CAS (140-31-8) ErC ₅₀ : > 1,000 mg/l (Pseudokirchneriella subcapita, (green algae) 72h; CAS (Trade Secret) EC ₅₀ : 0,33 mg/l (Scenedesmus subspicatus) static test, 72h; ; CAS (80-05-7) EC ₅₀ : 1.1 mg/l, Growth rate inhibition (Skeletonema costatum (marine diatom)), static test, 96h; CAS (100-51-6) EC ₅₀ : 770 mg/l, Growth rate (Pseudokirchneriella subcapitata (green algae)), Static, 72h; CAS (103-83-3) ErC ₅₀ : Growth rate inhibition, 1.34 mg/l (Desmodesmus subspicatus (green algae)), static test, 72h;	
Persistence and degradability	CAS (140-31-8) Material is not readily biodegradable 0% 28d; 10-day Window: Fail; CAS (Trade Secret) this material cannot be considered as readily biodegradable, 48.2% 35d; 10-day Window: Fail; CAS (80-05-7) Material is readily biodegradable 93.1% 28d; 10-day Window: Pass; CAS (100-51-6) Material is readily biodegradable 92 – 96 % 14d; 10-day Window: Not applicable; CAS (103-83-3) Material is expected to biodegrade very slowly (in the environment). 0 – 2 % 28d; 10-day Window: Not applicable.
Bioaccumulative potential	CAS (140-31-8) Bioconcentration potential is low (BCF < 100 or Log Pow < 3); CAS (Trade Secret) Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7); CAS (80-05-7) Bioconcentration potential is low (BCF less than 100 or log Pow greater than 7); CAS (100-51-6) Bioconcentration potential is low (BCF < 100 or Log Pow < 3); CAS (103-83-3) Bioconcentration potential is low (BCF < 100 or Log Pow < 3).
Mobility in soil	CAS (140-31-8) Expected to be relatively immobile in soil (Koc > 5000).; CAS (Trade Secret) Expected to be relatively immobile in soil (Koc > 5000).; CAS (80-05-7) Potential for mobility in soil is low (Koc between 500 and 2000).; CAS (100-51-6) Potential for mobility in soil is very high (Koc between 0 and 50); CAS (103-83-3) Potential for mobility in soil is low (Koc between 500 and 2000).
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	
UN 2735; NAME: Amines liquids, corrosives (N-Aminoethylpiperazine, Benzyltrimethylamine) N.O.S. HAZARD CLASS: 8; PACKING GROUP:II Marine pollutant: 4-Nonylphenol, branched	
UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)	
UN 2735; NAME: Amines liquids, corrosives (N-Aminoethylpiperazine, Benzyltrimethylamine) N.O.S. HAZARD CLASS: 8; PACKING GROUP:II Marine pollutant: 4-Nonylphenol, branched, Bisphenol A	
UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)	
UN 2735; NAME: Amines liquids, corrosives (N-Aminoethylpiperazine, Benzyltrimethylamine) N.O.S. HAZARD CLASS: 8; PACKING GROUP:II	
Special precautions (transport/conveyance)	Can be shipped as LIMITED QUANTITY according to TDG.
Environmental hazards (IMDG or other)	Consult IMO regulations before transporting ocean bulk
Bulk transport (usually more than 450 L in capacity)	Not established.
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.	
California Proposition 65: Listed Carcinogenic substance: Bisphenol A (CAS 80-05-7) This product is known to the State of California to cause	



cancer or other reproductive harm.

Section 16. Other Information

Date of the latest revision of the safety data sheet | September 11, 2020 - version 01

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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