

**SAFETY DATA SHEET (SDS)****Section 1. Identification**

Product identifier	EPOXY PRIMER, Part A
Other means of identification	FF-EPPR-000-A
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 (Category 4)
Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 2B)
Skin sensitization (Category 1)

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

H302 Harmful if swallowed.
H315 + H320 Causes skin and eye irritation.
H317 May cause an allergic skin reaction.

Prevention

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 P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear gloves/protective clothing/gloves/eye protection/face protection.

Response

IF SWALLOWED: P301 + P312 Immediately call a Poison Center/doctor if you feel unwell. P330 Rinse mouth.
IF ON SKIN: P302 + P352 Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical advice attention P362 + P364 Take off contaminated clothing and wash it before reuse.
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

Chemical name (common name/synonyms)	CAS number or other	Concentration (%)
Polymère en Bisphénol A / Epichlorohydrine	25068-38-6	> 70 %
Alkil ether glycidyl	68609-97-2	< 30 %

Section 4. First-Aid Measures

Inhalation	IF INHALED: If overexposure remove person to fresh air and keep comfortable for breathing. Provide artificial respiration if necessary. If symptoms persist, seek medical attention.
Ingestion	IF SWALLOWED: Immediately call a doctor. Do NOT induce vomiting. If vomiting occurs, prevent aspiration of vomit. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
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.
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. Causes skin and eye irritation. May cause an allergic skin reaction.
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). 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			
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. Contaminated work clothing should not be allowed out of the workplace. 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: ACGIH – TLV-TWA No data 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: 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	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	
Chloro hydrogen, carbon oxides	
Section 11. Toxicological Information	
Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)	
Harmful if swallowed. Causes skin and 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 – 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 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 68609-97-2: LD ₅₀ Oral - Rat - > 17,100 mg/kg; LD ₅₀ Dermal – Rabbit – 4,500 mg/kg; 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 68609-97-2: LC ₅₀ : 0.002 mg/l 96h.	
Toxicity to Aquatic Invertebrates: CAS: 25068-38-6 EC ₅₀ : 1.8 mg/l (Water flea (Daphnia magna) 48h); CAS 68609-97-2: EC ₅₀ : 0.003 mg/l 96h (Daphnia magna)	
Toxicity to 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%, Readily biodegradable;
Bioaccumulative potential	CAS: 25068-38-6 Bio-concentration potential is moderate; CAS 68609-97-2: log Kow: 7.25, BCF: 934.9
Mobility in soil	CAS: 25068-38-6 Potential for mobility in soil is low; CAS 68609-97-2: Koc: 12830
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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SAFETY DATA SHEET (SDS)

Section 1. Identification

Product identifier	EPOXY PRIMER, Part B
Other means of identification	FF-EPPR-B
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)

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 1B)
Reproductive toxicity, effects on or via lactation (Additional category)
Hazardous to the aquatic environment acute hazard (Category 3)
Hazardous to the aquatic environment short/long term hazard (Category 1)

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 irritation.
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.
H402 Harmful to aquatic life.
H410 Very 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 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 work place. 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 +P331 Rinse mouth. Do NOT induce vomiting
IF ON SKIN: P302 + P352 Wash with plenty of water. P312 call a POISON CENTER if you feel unwell. P303+P361+P353 If on skin (or hair): take off immediately all contaminated clothing. Rinse skin with water (or shower) P362 + P364 Take off contaminated clothing and wash it before reuse. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
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. P310 Immediately call a POISON CENTER/doctor.
IF EXPOSED OR CONCERNED: P308 + P313 get medical advice/attention.
IN CASE OF FIRE P370 + P378 Use manufacturer/supplier or the competent authority to specify appropriate media
ENVIRONMENT P391 Collect spillage



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 Ingredients		
Chemical name (common name/synonyms)	CAS number or other	Concentration (%)
Benzyl alcohol	100-51-6	25 – 40 %
M-Phenylenebis(Methylamine)	1477-55-0	15 – 25 %
L'isophorone Diamine	2855-13-2	10 – 25 %
Paratertiarybutylphenol	98-54-4	3 – 7 %
Hydroxy Benzoic acid	65-85-0	1 – 5 %
Nonylphénol	84852-15-3	< 10 %
Bisphénol A	80-05-7	1 – 5 %
2-piperazin-1-ethylamine	140-31-8	3 - 7 %
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. Prevent aspiration of vomit. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.	
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 or decontaminate footwear before reuse. 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. Do not attempt to neutralize with chemical agents. 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 severe skin burns and eye damage. May cause an allergic skin irritation. 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.	
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.		
Suitable and unsuitable extinguishing media		
In case of fire: Use water.		
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). 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 work place. 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 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-STEL: CAS 1477-55-0: 0.1 mg/m³

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	Amine	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	>110°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

Avoid contact with epoxy resins, oxidizing materials, acids, acrylates, metals, nitrites, ketones, hydrocarbons, aldehydes, alcohol, sodium or calcium hypochlorite.

Hazardous decomposition products

Nitrogen oxides and other acidic gasses.

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 irritation. 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.

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 100-51-6 LD₅₀ Oral – Rat 1230 mg/kg/ Rabbit 1040 mg/kg; LD₅₀ Dermal – Rabbit 2000 mg/kg; LC₅₀ Inhalation – Mouse 5620 ppm 1hr/500 mg/m³; CAS 1477-55-0 LD₅₀ Oral – Rat 930 mg/kg; LD₅₀ Dermal – Rabbit 2000 mg/kg; LC₅₀ Inhalation - Rat 700 ppm 1hr; CAS 2855-13-2 LD₅₀ Oral - Rat 1030 mg/kg; LD₅₀ Dermal – Rabbit 1800 mg/kg; LC₅₀ Inhalation Not available; CAS 98-54-4 LD₅₀ Oral - Rat 4000 mg/kg; LD₅₀ Dermal – Rat 2318 mg/kg; LC₅₀ Inhalation Not available; CAS 65-85-0 LD₅₀ Oral - Rat 2565 mg/kg; LD₅₀ Dermal – Rabbit >2000 mg/kg; LC₅₀ Inhalation



– Rat >12.2 mg/L 4hrs (dust); CAS 84852-15-3 LD₅₀ Oral - Rat - 1300 mg/kg; LD₅₀ Dermal – Rabbit 2000 mg/kg; LC₅₀ Inhalation Not available; ATE not available in this document.

Section 12. Ecological Information

Ecotoxicity (aquatic and terrestrial information)

Fish toxicity CAS:100-51-6: LC50: > 100 mg/L (*Oryzias latipes*, 96h); CAS:1477-55-0: LC50: 75 mg/L (*Golden orfe*, 96h); CAS: 2855-13-2: LC50: 110 mg/L (*Leuciscus idus*, 96h); CAS:98-54-4: LC50: 5.1 mg/L (96h, *Oryzias latipes*); CAS:65-85-0: LC50: 47.3 mg/L (*Salmo gairdneri*, 96h); CAS: 84852-15-3: LC50: 0.128 mg/L (*Pimephales promelas*, 96h).

Invertebrate toxicity CAS: 100-51-6: EC50: 230 mg/L (48h, *Daphnia magna*); CAS:1477-55-0: 15.2 mg/L (48h, *Daphnia magna*); CAS: 2855-13-2: EC50: 23 mg/L (48h, *Daphnia magna*); CAS: 98-54-4: EC50: 3.4 mg/L (48h, *Daphnia magna*); CAS: 65-85-0: EC50: 100 mg/L (48h, *Daphnia magna*, pH: 8.4); CAS: 84852-15-3: EC50: 0.0207 mg/L (*Hyalella azteca*, 96h).

Aquatic plant toxicity CAS: 100-51-6: EC50: 770 mg/L (*Pseudokirchneriella subcapita*, 72h); CAS: 1477-55-0: EC50: 33.3 mg/L (*Selenastrum capricornutum*, 72h); CAS: 2855-13-2: EC50: > 50 mg/L (*Scenedesmus subspicatus*, 72h); CAS: 98-54-4: EC50: 22.7 mg/L (*Selenastrum capricornutum*, 72h); CAS: 65-85-0: Inhibition starts at 1630 mg/L (*Scenedesmus, quadricauda*, 96h, pH: 7); CAS: 84852-15-3: EC50: 0.0563 mg/L (*Scenedesmus subspicatus*).

Persistence and degradability CAS:100-51-6: Readily biodegradable, 92-96% after 14 days.; CAS: 1477-55-0 Not readily biodegradable. 49% after 28 days; CAS: 2855-13-2: Not readily biodegradable (8% after 28 days); CAS: 98-54-4 readily biodegradable; CAS:65-85-0: readily biodegradable (> 90% after 28d); CAS:84852-15-3: readily biodegradable (62% after 28 days).

Bioaccumulative potential CAS: 1477-55-0: Not bioaccumulate (BCF: < 2.7); CAS:98-54-4: BCF: 34-120; CAS:65-85-0: Low potential for bioaccumulation, (log Pow: 1.88); CAS: 84852-15-3: Highly potential to bioaccumulate. (BCF 740).

Mobility in soil No data available

Other adverse effects Harmful to aquatic life. Very 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

NAME: Amines liquids, corrosives, N.O.S.; UN NUMBER: UN 2735 ; HAZARD CLASS: 8; PACKING GROUP: III.

UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)

NAME: Amines liquids, corrosives, N.O.S.; UN NUMBER: UN 2735 ; HAZARD CLASS: 8; PACKING GROUP: III; MARINE POLLUTANT: No.

UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)

NAME: Amines liquids, corrosives, N.O.S.; UN NUMBER: UN 2735; HAZARD CLASS: 8; PACKING GROUP: III.

Special precautions (transport/conveyance) Can be shipped as LIMITED QUANTITY according to TDG.

Environmental hazards (IMDG or other) None

Bulk transport (usually more than 450 L in capacity) N/A according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code.

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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