



VAPOR BAN™ ER Part A

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Date of Issue: 02/19/2019

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: VAPOR BAN™ ER Part A

1.2. Intended Use of the Product

Moisture vapor control

1.3. Name, Address, and Telephone of the Responsible Party

Company

LATICRETE International

1 Laticrete Park, N

Bethany, CT 06524

T (203)-393-0010

www.laticrete.com

Company

LATICRETE Canada ULC

PO Box 129

Emeryville, Ontario

Canada NOR-1A0

1.4. Emergency Telephone Number

Emergency Number : For Chemical Emergency Call CHEMTREC day or night

Within USA and Canada: 1.800.424.9300

Mexico: 1.800.681.9531

Outside USA and Canada: 1.703.527.3887 (collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Acute Tox. 4 (Oral) H302

Acute Tox. 4 (Inhalation:dust,mist) H332

Skin Corr. 1B H314

Eye Dam. 1 H318

Skin Sens. 1B H317

Muta. 2 H341

Repr. 2 H361

STOT SE 1 H370

STOT RE 2 H373

Aquatic Acute 2 H401

Aquatic Chronic 2 H411

Full text of hazard classes and H-statements : see section 16

2.2. Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA)



Signal Word (GHS-US/CA)

: Danger

Hazard Statements (GHS-US/CA)

: H302+H332 - Harmful if swallowed or if inhaled.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H341 - Suspected of causing genetic defects.
H361 - Suspected of damaging fertility or the unborn child.
H370 - Causes damage to organs.
H373 - May cause damage to organs through prolonged or repeated exposure.

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Precautionary Statements (GHS-US/CA) :

- H401 - Toxic to aquatic life.
- H411 - Toxic 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.
- P260 - Do not breathe vapors, mist, or spray.
- P264 - Wash hands, forearms, and other exposed areas 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 protective gloves, protective clothing, and eye protection.
- P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.
- P308+P313 - If exposed or concerned: Get medical advice/attention.
- P310 - Immediately call a POISON CENTER or doctor.
- P314 - Get medical advice/attention if you feel unwell.
- P321 - Specific treatment (see section 4 on this SDS).
- P330 - Rinse mouth.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 - Take off contaminated clothing and wash it before reuse.
- P391 - Collect spillage.
- P405 - Store locked up.
- P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product Identifier | % * | GHS Ingredient Classification |
|----------------------------|----------------------|--------|--|
| Phenol, 4-nonyl-, branched | (CAS-No.) 84852-15-3 | 9 - 24 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 1,3-Benzenedimethanamine | (CAS-No.) 1477-55-0 | 9 - 22 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 Skin Sens. 1B, H317 Aquatic Acute 3, H402 |

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| | | | |
|--------------------------------------|--------------------|---------|---|
| 4-tert-Butylphenol | (CAS-No.) 98-54-4 | 4 - 12 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |
| Benzyl alcohol | (CAS-No.) 100-51-6 | 5 - 10 | Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2A, H319 Aquatic Acute 2, H401 |
| Phenol | (CAS-No.) 108-95-2 | 3 - 6 | Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Muta. 2, H341 STOT SE 1, H370 STOT RE 2, H373 Aquatic Acute 2, H401 Aquatic Chronic 3, H412 |
| 2,4,6-Tri(dimethylaminomethyl)phenol | (CAS-No.) 90-72-2 | 0.6 - 3 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Acute 3, H402 |
| Methyl alcohol | (CAS-No.) 67-56-1 | < 0.01 | Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 STOT SE 1, H370 |

Full text of H-phrases: see section 16

*Percentages are listed in weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention. Immediately call a poison center or doctor/physician.

Skin Contact: Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Get immediate medical advice/attention.

Eye Contact: Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. Skin sensitization. Suspected of damaging fertility or the unborn child. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure. Suspected of causing genetic defects.

Inhalation: Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness. May be corrosive to the respiratory tract. May cause pulmonary edema. Symptoms of respiratory complications (lung oedema) may occur several hours after.

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Skin Contact: May cause an allergic skin reaction. Causes severe irritation which will progress to chemical burns.

Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. This material contains methanol, which, when ingested, may cause acidosis and ocular toxicity ranging from diminished visual capacity to complete blindness, and possible death.

Chronic Symptoms: Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Suspected of causing genetic defects.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Nitrogen oxides. Ammonia. Carbon oxides (CO, CO₂). Corrosive vapors. Toxic vapors. Aldehydes.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Cautiously neutralize spilled liquid.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: May release corrosive vapors.

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Precautions for Safe Handling: Do not breathe vapors, mist, or spray. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard. Use only outdoors or in a well-ventilated area. Obtain special instructions before use.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Store locked up/in a secure area. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Reactive metals. Organic acids. Mineral acids.

7.3. Specific End Use(s)

Moisture vapor control

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

| 1,3-Benzenedimethanamine (1477-55-0) | | |
|---|--|--|
| USA ACGIH | ACGIH Ceiling (mg/m ³) | 0.1 mg/m ³ |
| USA ACGIH | ACGIH chemical category | Skin - potential significant contribution to overall exposure by the cutaneous route |
| USA NIOSH | NIOSH REL (ceiling) (mg/m ³) | 0.1 mg/m ³ |
| Alberta | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| British Columbia | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Manitoba | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| New Brunswick | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Newfoundland & Labrador | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Nova Scotia | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Nunavut | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Northwest Territories | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Ontario | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Prince Edward Island | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Québec | PLAFOND (mg/m ³) | 0.1 mg/m ³ |
| Saskatchewan | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Yukon | OEL Ceiling (mg/m ³) | 0.1 mg/m ³ |
| Benzyl alcohol (100-51-6) | | |
| USA AIHA | WEEL TWA (ppm) | 10 ppm |
| Phenol (108-95-2) | | |
| USA ACGIH | ACGIH TWA (ppm) | 5 ppm |
| USA ACGIH | ACGIH chemical category | Skin - potential significant contribution to overall exposure by the cutaneous route, Not Classifiable as a Human Carcinogen |
| USA ACGIH | Biological Exposure Indices (BEI) | 250 mg/g Kreatinin Parameter: Phenol with hydrolysis - Medium: urine - Sampling time: end of shift (background, nonspecific) |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 19 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 5 ppm |
| USA OSHA | Limit value category (OSHA) | prevent or reduce skin absorption |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 19 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 5 ppm |

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| | | |
|------------------------------------|--|---|
| USA NIOSH | NIOSH REL (ceiling) (mg/m ³) | 60 mg/m ³ |
| USA NIOSH | NIOSH REL (ceiling) (ppm) | 15.6 ppm |
| USA IDLH | US IDLH (ppm) | 250 ppm |
| Alberta | OEL TWA (mg/m ³) | 19 mg/m ³ |
| Alberta | OEL TWA (ppm) | 5 ppm |
| British Columbia | OEL TWA (ppm) | 5 ppm |
| Manitoba | OEL TWA (ppm) | 5 ppm |
| New Brunswick | OEL TWA (mg/m ³) | 19 mg/m ³ |
| New Brunswick | OEL TWA (ppm) | 5 ppm |
| Newfoundland & Labrador | OEL TWA (ppm) | 5 ppm |
| Nova Scotia | OEL TWA (ppm) | 5 ppm |
| Nunavut | OEL STEL (ppm) | 7.5 ppm |
| Nunavut | OEL TWA (ppm) | 5 ppm |
| Northwest Territories | OEL STEL (ppm) | 7.5 ppm |
| Northwest Territories | OEL TWA (ppm) | 5 ppm |
| Ontario | OEL TWA (ppm) | 5 ppm |
| Prince Edward Island | OEL TWA (ppm) | 5 ppm |
| Québec | VEMP (mg/m ³) | 19 mg/m ³ |
| Québec | VEMP (ppm) | 5 ppm |
| Saskatchewan | OEL STEL (ppm) | 7.5 ppm |
| Saskatchewan | OEL TWA (ppm) | 5 ppm |
| Yukon | OEL STEL (mg/m ³) | 38 mg/m ³ |
| Yukon | OEL STEL (ppm) | 10 ppm |
| Yukon | OEL TWA (mg/m ³) | 19 mg/m ³ |
| Yukon | OEL TWA (ppm) | 5 ppm |
| Methyl alcohol (67-56-1) | | |
| USA ACGIH | ACGIH TWA (ppm) | 200 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 250 ppm |
| USA ACGIH | ACGIH chemical category | Skin - potential significant contribution to overall exposure by the cutaneous route |
| USA ACGIH | Biological Exposure Indices (BEI) | 15 mg/l Parameter: Methanol - Medium: urine - Sampling time: end of shift (background, nonspecific) |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 260 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 260 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 200 ppm |
| USA NIOSH | NIOSH REL (STEL) (mg/m ³) | 325 mg/m ³ |
| USA NIOSH | NIOSH REL (STEL) (ppm) | 250 ppm |
| USA IDLH | US IDLH (ppm) | 6000 ppm |
| Alberta | OEL STEL (mg/m ³) | 328 mg/m ³ |
| Alberta | OEL STEL (ppm) | 250 ppm |
| Alberta | OEL TWA (mg/m ³) | 262 mg/m ³ |
| Alberta | OEL TWA (ppm) | 200 ppm |
| British Columbia | OEL STEL (ppm) | 250 ppm |
| British Columbia | OEL TWA (ppm) | 200 ppm |
| Manitoba | OEL STEL (ppm) | 250 ppm |
| Manitoba | OEL TWA (ppm) | 200 ppm |
| New Brunswick | OEL STEL (mg/m ³) | 328 mg/m ³ |
| New Brunswick | OEL STEL (ppm) | 250 ppm |
| New Brunswick | OEL TWA (mg/m ³) | 262 mg/m ³ |
| New Brunswick | OEL TWA (ppm) | 200 ppm |
| Newfoundland & Labrador | OEL STEL (ppm) | 250 ppm |

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| | | |
|-------------------------|-------------------------------|-----------------------|
| Newfoundland & Labrador | OEL TWA (ppm) | 200 ppm |
| Nova Scotia | OEL STEL (ppm) | 250 ppm |
| Nova Scotia | OEL TWA (ppm) | 200 ppm |
| Nunavut | OEL STEL (ppm) | 250 ppm |
| Nunavut | OEL TWA (ppm) | 200 ppm |
| Northwest Territories | OEL STEL (ppm) | 250 ppm |
| Northwest Territories | OEL TWA (ppm) | 200 ppm |
| Ontario | OEL STEL (ppm) | 250 ppm |
| Ontario | OEL TWA (ppm) | 200 ppm |
| Prince Edward Island | OEL STEL (ppm) | 250 ppm |
| Prince Edward Island | OEL TWA (ppm) | 200 ppm |
| Québec | VECD (mg/m ³) | 328 mg/m ³ |
| Québec | VECD (ppm) | 250 ppm |
| Québec | VEMP (mg/m ³) | 262 mg/m ³ |
| Québec | VEMP (ppm) | 200 ppm |
| Saskatchewan | OEL STEL (ppm) | 250 ppm |
| Saskatchewan | OEL TWA (ppm) | 200 ppm |
| Yukon | OEL STEL (mg/m ³) | 310 mg/m ³ |
| Yukon | OEL STEL (ppm) | 250 ppm |
| Yukon | OEL TWA (mg/m ³) | 260 mg/m ³ |
| Yukon | OEL TWA (ppm) | 200 ppm |

8.2. Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be released.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Face shield.



Materials for Protective Clothing: Chemically resistant materials and fabrics. Corrosion-proof clothing.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles and face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

| | |
|------------------|-----------------|
| Physical State | : Liquid |
| Appearance | : Yellow |
| Odor | : Not available |
| Odor Threshold | : Not available |
| pH | : Not available |
| Evaporation Rate | : Not available |
| Melting Point | : Not available |
| Freezing Point | : Not available |
| Boiling Point | : Not available |
| Flash Point | : Not available |

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| | |
|---|------------------|
| Auto-ignition Temperature | : Not available |
| Decomposition Temperature | : Not available |
| Flammability (solid, gas) | : Not applicable |
| Lower Flammable Limit | : Not available |
| Upper Flammable Limit | : Not available |
| Vapor Pressure | : Not available |
| Relative Vapor Density at 20°C | : Not available |
| Relative Density | : Not available |
| Specific Gravity | : Not available |
| Solubility | : Not available |
| Partition Coefficient: N-Octanol/Water | : Not available |
| Viscosity | : Not available |

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.
- 10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Reactive metals. Organic acids. Mineral acids.
- 10.6. Hazardous Decomposition Products:** Thermal decomposition generates: Corrosive vapors. Nitric acid. Nitrogen oxides. Carbon oxides (CO, CO₂). Aldehydes. Nitrosamine.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Oral: Harmful if swallowed.

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Inhalation:dust,mist: Harmful if inhaled.

LD50 and LC50 Data:

| VAPOR BAN™ ER Part A | |
|-------------------------------|----------------------------|
| ATE US/CA (oral) | 1,450.99 mg/kg body weight |
| ATE US/CA (dust, mist) | 2.89 mg/l/4h |

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.

pH: Not available

Eye Damage/Irritation: Causes serious eye damage.

pH: Not available

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Suspected of causing genetic defects.

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): Causes damage to organs.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness. May be corrosive to the respiratory tract. May cause pulmonary edema. Symptoms of respiratory complications (lung oedema) may occur several hours after.

Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction. Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. This material contains methanol,

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which, when ingested, may cause acidosis and ocular toxicity ranging from diminished visual capacity to complete blindness, and possible death.

Chronic Symptoms: Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Suspected of causing genetic defects.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

| | |
|---|---|
| 4-tert-Butylphenol (98-54-4) | |
| LD50 Oral Rat | 4000 mg/kg |
| LD50 Dermal Rabbit | 2318 mg/kg |
| 1,3-Benzenedimethanamine (1477-55-0) | |
| LD50 Oral Rat | 1090 mg/kg (Species: Wistar) |
| LD50 Dermal Rabbit | 2 g/kg |
| LC50 Inhalation Rat | 350 ppm/4h |
| LC50 Inhalation Rat | 1.34 mg/l/4h (Species: Wistar) |
| Benzyl alcohol (100-51-6) | |
| LD50 Oral Rat | 1230 mg/kg |
| LD50 Dermal Rabbit | > 2000 mg/kg |
| LD50 Intravenous Rat | 53 mg/kg |
| LC50 Inhalation Rat | > 4.178 mg/l/4h |
| ATE US/CA (dust, mist) | 1.50 mg/l/4h |
| Phenol, 4-nonyl-, branched (84852-15-3) | |
| LD50 Oral Rat | 1300 mg/kg |
| LD50 Dermal Rabbit | 2000 mg/kg |
| Phenol (108-95-2) | |
| LD50 Oral Rat | 340 mg/kg |
| LD50 Dermal Rabbit | 630 mg/kg |
| ATE US/CA (dust, mist) | 0.50 mg/l/4h |
| 2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2) | |
| LD50 Oral Rat | 1200 mg/kg |
| LD50 Dermal Rat | 1280 mg/kg |
| Methyl alcohol (67-56-1) | |
| LD50 Dermal Rabbit | 15840 mg/kg |
| LC50 Inhalation Rat | 3 mg/l/4h |
| LC50 Inhalation Rat | 22500 ppm (Exposure time: 8 h) |
| ATE US/CA (oral) | 100.00 mg/kg body weight |
| Phenol (108-95-2) | |
| IARC Group | 3 |
| National Toxicology Program (NTP) Status | Twelfth Report - Items under consideration. |

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Toxic to aquatic life with long lasting effects.

| | |
|---|--|
| 4-tert-Butylphenol (98-54-4) | |
| LC50 Fish 1 | 4.71 - 5.62 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 3.9 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 Fish 2 | 6.9 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static]) |
| EC50 Daphnia 2 | 3.4 - 4.5 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| NOEC Chronic Fish | 0.1 mg/l (Species: Pimephales promelas) |
| NOEC Chronic Algae | 0.32 mg/l |
| 1,3-Benzenedimethanamine (1477-55-0) | |
| LC50 Fish 1 | 75 mg/l |

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| | |
|---|--|
| EC50 Daphnia 1 | 15 mg/l |
| NOEC Chronic Crustacea | 4.7 mg/l |
| Benzyl alcohol (100-51-6) | |
| LC50 Fish 1 | 460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 1 | 23 mg/l (Exposure time: 48 h - Species: water flea) |
| LC50 Fish 2 | 10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| ErC50 (algae) | 770 mg/l |
| Phenol, 4-nonyl-, branched (84852-15-3) | |
| LC50 Fish 1 | 0.135 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 0.14 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 Fish 2 | 0.1351 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through]) |
| NOEC Chronic Fish | 0.006 |
| Phenol (108-95-2) | |
| LC50 Fish 1 | 11.9 - 50.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 4.24 - 10.7 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| LC50 Fish 2 | 20.5 - 25.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 2 | 10.2 - 15.5 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| NOEC Chronic Fish | 0.75 mg/l |
| 2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2) | |
| ErC50 (algae) | 84 mg/l |
| NOEC Chronic Algae | 6.25 g/l |
| Methyl alcohol (67-56-1) | |
| LC50 Fish 1 | 28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 1340 mg/l |
| LC50 Fish 2 | > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |

12.2. Persistence and Degradability

| | |
|-------------------------------|---|
| VAPOR BAN™ ER Part A | |
| Persistence and Degradability | May cause long-term adverse effects in the environment. |

12.3. Bioaccumulative Potential

| | |
|--|----------------------------------|
| VAPOR BAN™ ER Part A | |
| Bioaccumulative Potential | Not established. |
| 4-tert-Butylphenol (98-54-4) | |
| BCF Fish 1 | 34 - 240 |
| Log Pow | 2.44 |
| Benzyl alcohol (100-51-6) | |
| Log Pow | 1.1 |
| Phenol, 4-nonyl-, branched (84852-15-3) | |
| BCF Fish 1 | 271 |
| Phenol (108-95-2) | |
| BCF Fish 1 | (no significant bioaccumulation) |
| Log Pow | 1.5 |
| Methyl alcohol (67-56-1) | |
| BCF Fish 1 | < 10 |
| Log Pow | -0.77 |

12.4. Mobility in Soil Not available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Proper Shipping Name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Phenol, 4-nonyl-, branched ; 1,3-Benzenedimethanamine ; Phenol)

Hazard Class : 8

Identification Number : UN3267

Label Codes : 8

Packing Group : II

Marine Pollutant : Marine pollutant

ERG Number : 153



14.2. In Accordance with IMDG

Proper Shipping Name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Phenol, 4-nonyl-, branched; 1,3-Benzenedimethanamine ; Phenol)

Hazard Class : 8

Identification Number : UN3267

Label Codes : 8

Packing Group : II

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-B

Marine pollutant : Marine pollutant



14.3. In Accordance with IATA

Proper Shipping Name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Phenol, 4-nonyl-, branched ; 1,3-Benzenedimethanamine ; Phenol)

Hazard Class : 8

Identification Number : UN3267

Label Codes : 8

Packing Group : II

ERG Code (IATA) : 8L



14.4. In Accordance with TDG

Proper Shipping Name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Phenol, 4-nonyl-, branched ; 1,3-Benzenedimethanamine ; Phenol)

Hazard Class : 8

Identification Number : UN3267

Label Codes : 8

Packing Group : II

Marine Pollutant (TDG) : Marine pollutant



SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

| VAPOR BAN™ ER Part A | |
|-------------------------------------|--|
| SARA Section 311/312 Hazard Classes | Health hazard - Reproductive toxicity Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Respiratory or skin sensitization |

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| | |
|--|--|
| | Health hazard - Germ cell mutagenicity Health hazard - Acute toxicity (any route of exposure) Health hazard - Serious eye damage or eye irritation Health hazard - Skin corrosion or Irritation |
| 4-tert-Butylphenol (98-54-4) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| 1,3-Benzenedimethanamine (1477-55-0) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Benzyl alcohol (100-51-6) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Phenol, 4-nonyl-, branched (84852-15-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| EPA TSCA Regulatory Flag | SP - SP - indicates a substance that is identified in a proposed Significant New Uses Rule. |
| SARA Section 313 - Emission Reporting | 1 % |
| Phenol (108-95-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302 Subject to reporting requirements of United States SARA Section 313 | |
| CERCLA RQ | 1000 lb |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 500 - 10000 lb |
| SARA Section 313 - Emission Reporting | 1 % |
| 2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Methyl alcohol (67-56-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| CERCLA RQ | 5000 lb |
| SARA Section 313 - Emission Reporting | 1 % |

15.2. US State Regulations

| | |
|--|---|
| Methyl alcohol (67-56-1) | |
| U.S. - California - Proposition 65 - Developmental Toxicity | WARNING: This product contains chemicals known to the State of California to cause birth defects. |
| 1,3-Benzenedimethanamine (1477-55-0) | |
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List | |
| Benzyl alcohol (100-51-6) | |
| U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List | |
| Phenol (108-95-2) | |
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List | |
| Methyl alcohol (67-56-1) | |
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List | |

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U.S. - Pennsylvania - RTK (Right to Know) List

15.3. Canadian Regulations

4-tert-Butylphenol (98-54-4)

Listed on the Canadian DSL (Domestic Substances List)

1,3-Benzenedimethanamine (1477-55-0)

Listed on the Canadian DSL (Domestic Substances List)

Benzyl alcohol (100-51-6)

Listed on the Canadian DSL (Domestic Substances List)

Phenol, 4-nonyl-, branched (84852-15-3)

Listed on the Canadian DSL (Domestic Substances List)

Phenol (108-95-2)

Listed on the Canadian DSL (Domestic Substances List)

2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)

Listed on the Canadian DSL (Domestic Substances List)

Methyl alcohol (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 02/19/2019

Revision

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

GHS Full Text Phrases:

| | |
|-------------------------------------|--|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal) Category 3 |
| Acute Tox. 3 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 3 |
| Acute Tox. 3 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Aquatic Acute 2 | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Aquatic Acute 3 | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Flam. Liq. 4 | Flammable liquids Category 4 |
| Muta. 2 | Germ cell mutagenicity Category 2 |
| Repr. 2 | Reproductive toxicity Category 2 |
| Skin Corr. 1B | Skin corrosion/irritation Category 1B |
| Skin Corr. 1C | Skin corrosion/irritation Category 1C |

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| | |
|---------------|---|
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Skin Sens. 1B | Skin sensitization, category 1B |
| STOT RE 2 | Specific target organ toxicity (repeated exposure) Category 2 |
| STOT SE 1 | Specific target organ toxicity (single exposure) Category 1 |
| H225 | Highly flammable liquid and vapour |
| H226 | Flammable liquid and vapour |
| H227 | Combustible liquid |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H311 | Toxic in contact with skin |
| H312 | Harmful in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H332 | Harmful if inhaled |
| H341 | Suspected of causing genetic defects |
| H361 | Suspected of damaging fertility or the unborn child |
| H370 | Causes damage to organs |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS 2015 (Can, US)