

# SAFETY DATA SHEET

## Cauterant Mix



### Section 1. Identification

<b>GHS product identifier</b>	:	Cauterant Mix
<b>Product code</b>	:	Not available.
<b>Other means of identification</b>	:	Not available.
<b>Product type</b>	:	Liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

<b>Identified uses</b>	:	Embalming fluid.
<b>Supplier's details</b>	:	Genelyn Canada/North America/Asia Inc. 711 Ontario Street Unit 3 Cobourg Ontario K9A 3C6 Phone: 1-905-376-3108 Toll Free number: 1-833-GENELYN (436-3596)

<b>Emergency telephone number (with hours of operation)</b>	:	For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC 1-800-424-9300 / +1 703-527-3887 CCN 854033 (24/7)
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### Section 2. Hazards identification

<b>OSHA/HCS status</b>	:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Classification of the substance or mixture</b>	:	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3
<b>GHS label elements</b>	:	



## Section 2. Hazards identification

### Hazard pictograms :



### Signal word

: Danger

### Hazard statements

- : 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.
- H350 - May cause cancer.
- H360 - May damage fertility or the unborn child.
- H341 - Suspected of causing genetic defects.
- H370 - Causes damage to organs.
- H335 - May cause respiratory irritation.
- H336 - May cause drowsiness or dizziness.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H412 - Harmful to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

- : P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
- P271 - Use only outdoors or in a well-ventilated area.
- P273 - Avoid release to the environment.
- P260 - Do not breathe vapor.
- P270 - Do not eat, drink or smoke when using this product.
- P264 - Wash hands thoroughly after handling.
- P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.

#### Response

- : P314 - Get medical attention if you feel unwell.
- P307 + P311 - IF exposed: Call a POISON CENTER or physician.
- P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.
- P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 + P363 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.
- P302 + P352 + P312 + P363 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Wash contaminated clothing before reuse.
- P333 + P313 - If skin irritation or rash occurs: Get medical attention.
- P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

#### Storage

- : P405 - Store locked up.

#### Disposal

- : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### Hazards not otherwise classified

- : None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Mixture
<b>Other means of identification</b>	: Not available.

Ingredient name	%	CAS number
1-Methoxy-2-propanol	10 - 30	107-98-2
Phenol	10 - 30	108-95-2
Formaldehyde	5 - 10	50-00-0
Glycerol	1 - 5	56-81-5
Methanol	1 - 5	67-56-1
Benzododecinium chloride	0.1 - 1	139-07-1
Disodium tetraborate decahydrate	0.1 - 1	1303-96-4

**United States:** The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

**Canada:** The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.
<b>Inhalation</b>	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Skin contact</b>	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed



## Section 4. First aid measures

### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

**Skin contact** : Causes severe burns. Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin. May cause an allergic skin reaction.

**Ingestion** : Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:  
stomach pains  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : No specific fire or explosion hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### United States

#### Occupational exposure limits

Ingredient name	Exposure limits
1-Methoxy-2-propanol	<b>ACGIH TLV (United States, 3/2018).</b> TWA: 50 ppm 8 hours. TWA: 184 mg/m <sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 369 mg/m <sup>3</sup> 15 minutes. <b>NIOSH REL (United States, 10/2016).</b> TWA: 100 ppm 10 hours. TWA: 360 mg/m <sup>3</sup> 10 hours. STEL: 150 ppm 15 minutes. STEL: 540 mg/m <sup>3</sup> 15 minutes.
Phenol	<b>ACGIH TLV (United States, 3/2018). Absorbed through skin.</b> TWA: 5 ppm 8 hours. TWA: 19 mg/m <sup>3</sup> 8 hours. <b>NIOSH REL (United States, 10/2016). Absorbed through skin.</b> TWA: 5 ppm 10 hours. TWA: 19 mg/m <sup>3</sup> 10 hours. CEIL: 15.6 ppm 15 minutes. CEIL: 60 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL (United States, 5/2018). Absorbed through skin.</b> TWA: 5 ppm 8 hours. TWA: 19 mg/m <sup>3</sup> 8 hours.
Formaldehyde	<b>OSHA PEL Z2 (United States, 2/2013).</b> TWA: 0.75 ppm 8 hours. STEL: 2 ppm 15 minutes. <b>NIOSH REL (United States, 10/2016).</b> TWA: 0.016 ppm 10 hours. CEIL: 0.1 ppm 15 minutes.



## Section 8. Exposure controls/personal protection

Glycerol	<p><b>OSHA PEL (United States, 5/2018).</b> TWA: 0.75 ppm 8 hours. STEL: 2 ppm 15 minutes.</p> <p><b>ACGIH TLV (United States, 3/2018). Skin sensitizer. Inhalation sensitizer.</b> STEL: 0.3 ppm 15 minutes. TWA: 0.1 ppm 8 hours.</p> <p><b>OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust</p> <p><b>ACGIH TLV (United States, 3/2018). Absorbed through skin.</b> TWA: 200 ppm 8 hours. TWA: 262 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 328 mg/m³ 15 minutes.</p> <p><b>NIOSH REL (United States, 10/2016). Absorbed through skin.</b> TWA: 200 ppm 10 hours. TWA: 260 mg/m³ 10 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m³ 15 minutes.</p> <p><b>OSHA PEL (United States, 5/2018).</b> TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours.</p> <p>None.</p> <p><b>NIOSH REL (United States, 10/2016).</b> TWA: 5 mg/m³ 10 hours.</p> <p><b>ACGIH TLV (United States, 3/2018).</b> TWA: 2 mg/m³ 8 hours. Form: Inhalable fraction STEL: 6 mg/m³ 15 minutes. Form: Inhalable fraction</p>
Methanol	
Benzododecinium chloride Disodium tetraborate decahydrate	

### Canada

#### Occupational exposure limits

Ingredient name	Exposure limits
1-Methoxy-2-propanol	<p><b>CA Alberta Provincial (Canada, 6/2018).</b> 8 hrs OEL: 100 ppm 8 hours. 15 min OEL: 553 mg/m³ 15 minutes. 8 hrs OEL: 369 mg/m³ 8 hours. 15 min OEL: 150 ppm 15 minutes.</p> <p><b>CA British Columbia Provincial (Canada, 7/2018).</b> STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.</p> <p><b>CA Ontario Provincial (Canada, 1/2018).</b> TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.</p> <p><b>CA Quebec Provincial (Canada, 1/2014).</b> TWAEV: 100 ppm 8 hours. TWAEV: 369 mg/m³ 8 hours. STEV: 150 ppm 15 minutes. STEV: 553 mg/m³ 15 minutes.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b> STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.</p> <p><b>CA Alberta Provincial (Canada, 6/2018). Absorbed through skin.</b> 8 hrs OEL: 19 mg/m³ 8 hours. 8 hrs OEL: 5 ppm 8 hours.</p> <p><b>CA British Columbia Provincial (Canada, 7/2018). Absorbed through skin.</b> TWA: 5 ppm 8 hours.</p> <p><b>CA Ontario Provincial (Canada, 1/2018). Absorbed through skin.</b> TWA: 5 ppm 8 hours.</p> <p><b>CA Quebec Provincial (Canada, 1/2014). Absorbed through skin.</b> TWAEV: 5 ppm 8 hours. TWAEV: 19 mg/m³ 8 hours.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.</b> STEL: 7.5 ppm 15 minutes. TWA: 5 ppm 8 hours.</p>
Phenol	



## Section 8. Exposure controls/personal protection

Formaldehyde	<p><b>CA Alberta Provincial (Canada, 6/2018).</b>  CEIL: 1.3 mg/m<sup>3</sup>  8 hrs OEL: 0.75 ppm 8 hours.  8 hrs OEL: 0.9 mg/m<sup>3</sup> 8 hours.  CEIL: 1 ppm</p> <p><b>CA British Columbia Provincial (Canada, 7/2018). Skin sensitizer.</b>  <b>Inhalation sensitizer.</b>  TWA: 0.3 ppm 8 hours.  CEIL: 1 ppm</p> <p><b>CA Ontario Provincial (Canada, 1/2018).</b>  CEIL: 1.5 ppm  STEL: 1 ppm 15 minutes.</p> <p><b>CA Quebec Provincial (Canada, 1/2014).</b>  STEV: 2 ppm 15 minutes.  STEV: 3 mg/m<sup>3</sup> 15 minutes.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013). Skin sensitizer.</b>  CEIL: 0.3 ppm</p>
Glycerol	<p><b>CA Alberta Provincial (Canada, 6/2018).</b>  8 hrs OEL: 10 mg/m<sup>3</sup> 8 hours. Form: Mist</p> <p><b>CA British Columbia Provincial (Canada, 7/2018).</b>  TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Mist  TWA: 3 mg/m<sup>3</sup> 8 hours. Form: Respirable mist</p> <p><b>CA Quebec Provincial (Canada, 1/2014).</b>  TWAEV: 10 mg/m<sup>3</sup> 8 hours. Form: Mist</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b>  STEL: 20 mg/m<sup>3</sup> 15 minutes. Form: Mist  TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Mist</p> <p><b>CA Ontario Provincial (Canada, 1/2018).</b>  TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Mist</p> <p><b>CA Alberta Provincial (Canada, 6/2018). Absorbed through skin.</b>  8 hrs OEL: 262 mg/m<sup>3</sup> 8 hours.  8 hrs OEL: 200 ppm 8 hours.  15 min OEL: 250 ppm 15 minutes.  15 min OEL: 328 mg/m<sup>3</sup> 15 minutes.</p> <p><b>CA British Columbia Provincial (Canada, 7/2018). Absorbed through skin.</b>  TWA: 200 ppm 8 hours.  STEL: 250 ppm 15 minutes.</p> <p><b>CA Ontario Provincial (Canada, 1/2018). Absorbed through skin.</b>  TWA: 200 ppm 8 hours.  STEL: 250 ppm 15 minutes.</p> <p><b>CA Quebec Provincial (Canada, 1/2014). Absorbed through skin.</b>  TWAEV: 200 ppm 8 hours.  TWAEV: 262 mg/m<sup>3</sup> 8 hours.  STEV: 250 ppm 15 minutes.  STEV: 328 mg/m<sup>3</sup> 15 minutes.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.</b>  STEL: 250 ppm 15 minutes.  TWA: 200 ppm 8 hours.</p> <p><b>CA British Columbia Provincial (Canada, 7/2018).</b>  TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Inhalable  STEL: 6 mg/m<sup>3</sup> 15 minutes. Form: Inhalable</p> <p><b>CA Ontario Provincial (Canada, 1/2018).</b>  TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction  STEL: 6 mg/m<sup>3</sup> 15 minutes. Form: Inhalable fraction</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b>  STEL: 6 mg/m<sup>3</sup> 15 minutes. Form: Inhalable fraction  TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction</p> <p><b>CA Alberta Provincial (Canada, 6/2018).</b>  8 hrs OEL: 1 mg/m<sup>3</sup> 8 hours.  15 min OEL: 3 ppm 15 minutes.</p> <p><b>CA Quebec Provincial (Canada, 1/2014).</b>  TWAEV: 5 mg/m<sup>3</sup> 8 hours.</p>
Methanol	
Disodium tetraborate decahydrate	

## Section 8. Exposure controls/personal protection

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

**Physical state** : Liquid. [Clear.]

**Color** : Yellowish.

**Odor** : Not available.

**Odor threshold** : Not available.

**pH** : 4.5

**Melting point** : Not available.

**Boiling point/boiling range** : Not available.

**Flash point** : Non-flammable.

## Section 9. Physical and chemical properties

<b>Evaporation rate</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Not available.
<b>Lower and upper explosive (flammable) limits</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: Not available.
<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: Not available.
<b>Flow time (ISO 2431)</b>	: Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: No specific data.
<b>Incompatible materials</b>	: Reactive or incompatible with the following materials: oxidizing materials.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1-Methoxy-2-propanol	LD50 Dermal LD50 Oral	Rabbit Rat	13 g/kg 6600 mg/kg	-
Phenol	LC50 Inhalation Vapor LD50 Dermal LD50 Dermal	Rat Rabbit Rat	316 mg/m <sup>3</sup> 630 mg/kg 669 mg/kg	4 hours
Formaldehyde	LD50 Oral LC50 Inhalation Gas. LD50 Dermal	Rat Rabbit	317 mg/kg 250 ppm 270 mg/kg	-
Glycerol	LD50 Oral	Rat	100 mg/kg	-
Methanol	LC50 Inhalation Gas. LC50 Inhalation Gas. LD50 Dermal	Rat Rat Rabbit	12600 mg/kg 145000 ppm 15800 mg/kg	1 hours
Benzododecinium chloride	LD50 Oral	Rat	5600 mg/kg	4 hours
Disodium tetraborate decahydrate	LD50 Oral	Rat	400 mg/kg	-
	LD50 Oral	Rat	2660 mg/kg	-

## Section 11. Toxicological information

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
1-Methoxy-2-propanol	Eyes - Mild irritant Skin - Mild irritant	Rabbit	-	24 hours 500 mg 500 mg	-
Phenol	Eyes - Mild irritant Eyes - Severe irritant Skin - Severe irritant	Rabbit	-	0.5 minutes 5 mg 5 mg	-
	Skin - Mild irritant	Pig	-	0.5 minutes 400 µl	-
	Skin - Severe irritant	Rabbit	-	100 mg	-
Formaldehyde	Eyes - Severe irritant Eyes - Severe irritant Skin - Mild irritant	Rabbit	-	535 mg 24 hours 750 µg	-
	Skin - Moderate irritant	Rabbit	-	750 µg	-
	Skin - Severe irritant	Rabbit	-	540 mg	-
Glycerol	Eyes - Mild irritant Skin - Mild irritant	Rabbit	-	24 hours 50 mg 24 hours 2 mg	-
		Rabbit	-	24 hours 500 mg	-
		Rabbit	-	24 hours 500 mg	-

### Sensitization

There is no data available.

### Mutagenicity

There is no data available.

### Carcinogenicity

#### Classification

Product/ingredient name	OSHA	IARC	NTP
Phenol Formaldehyde	- +	3 1	- Known to be a human carcinogen.

### Reproductive toxicity

There is no data available.

### Teratogenicity

There is no data available.

### Specific target organ toxicity (single exposure)

Name	Category	Target organs
1-Methoxy-2-propanol	Category 3	Narcotic effects
Formaldehyde	Category 3	Respiratory tract irritation
Methanol	Category 1	Not determined

### Specific target organ toxicity (repeated exposure)

Name	Category	Target organs
Phenol	Category 2	Not determined

### Aspiration hazard

There is no data available.

**Information on the likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes severe burns. Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin. May cause an allergic skin reaction.



## Section 11. Toxicological information

**Ingestion** : Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:  
stomach pains  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards.

#### Long term exposure

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards.

#### Potential chronic health effects

**General** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : Suspected of causing genetic defects.

**Teratogenicity** : May damage the unborn child.

**Developmental effects** : No known significant effects or critical hazards.

## Section 11. Toxicological information

**Fertility effects** : May damage fertility.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	347.86 mg/kg
Dermal	1429.64 mg/kg
Inhalation (gases)	7033.97 ppm
Inhalation (vapors)	15.96 mg/L

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Phenol	Acute EC50 130 mg/L Fresh water Chronic NOEC 16 µg/L Marine water Chronic NOEC 1.5 mg/L Fresh water Chronic NOEC 0.63 mg/L Fresh water	Aquatic plants - Lemna aequinoctialis Algae - Hormosira banksii - Gamete Daphnia - Daphnia magna Fish - Notopterus notopterus	96 hours 72 hours 21 days 30 days
Formaldehyde	Acute LC50 1170 µl/L Marine water Chronic NOEC 953.9 ppm Fresh water	Crustaceans - Artemia sp. Fish - Oncorhynchus tshawytscha - Egg	48 hours 43 days
Methanol	Acute LC50 2500000 µg/L Marine water Acute LC50 3289 mg/L Fresh water Acute LC50 290 mg/L Fresh water	Crustaceans - Crangon crangon - Adult Daphnia - Daphnia magna - Neonate Fish - Danio rerio - Egg	48 hours 48 hours 96 hours
Benzododecinium chloride Disodium tetraborate decahydrate	Acute LC50 100 to 500 µg/L Marine water Acute EC50 1645 mg/L Fresh water	Crustaceans - Echinogammarus olivii Crustaceans - Cypris subglobosa	48 hours 48 hours

### Persistence and degradability

There is no data available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
1-Methoxy-2-propanol	<1	-	low
Phenol	1.47	647	high
Glycerol	-1.76	-	low
Methanol	-0.77	<10	low

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe

## Section 13. Disposal considerations

way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Methanol Formaldehyde Phenol	67-56-1 50-00-0 108-95-2	Listed Listed Listed	U154 U122 U188

## Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN2922	UN2922	UN2922	UN2922
UN proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S. (Formaldehyde, Phenol)	CORROSIVE LIQUID, TOXIC, N.O.S. (Formaldehyde, Phenol)	CORROSIVE LIQUID, TOXIC, N.O.S. (Formaldehyde, Phenol)	CORROSIVE LIQUID, TOXIC, N.O.S. (Formaldehyde, Phenol)
Transport hazard class(es)	8 (6.1)  	8 (6.1)  	8 (6.1)  	8 (6.1)  
Packing group	III	III	III	III
Environmental hazards	No.	No.	No.	No.

**AERG : 154**

**DOT-RQ Details** : Formaldehyde  
Phenol 100 lbs / 45.4 kg [14.77 gal / 55.911 L]  
1000 lbs / 454 kg

### Additional information

**DOT Classification** : **Reportable quantity** 1004.5 lbs / 456.04 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8), 2.26-2.36 (Class 6).

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

**U.S. Federal regulations** : **United States inventory (TSCA 8b)**: All components are listed or exempted.  
**Clean Water Act (CWA) 307**: Phenol  
**Clean Water Act (CWA) 311**: Formaldehyde; Formic acid; Phenol  
**Clean Air Act (CAA) 112 regulated toxic substances**: Formaldehyde

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

<b>Name</b>	<b>EHS</b>	<b>SARA 302 TPQ</b>		<b>SARA 304 RQ</b>	
		<b>(lbs)</b>	<b>(gallons)</b>	<b>(lbs)</b>	<b>(gallons)</b>
Phenol	Yes.	500 / 10000	-	1000	-
Formaldehyde	Yes.	500	73.9	100	14.8
Ethylene oxide	Yes.	1000	-	10	-

**SARA 304 RQ** : 1004.5 lbs / 456 kg

### SARA 311/312

**Classification** : ACUTE TOXICITY (oral) - Category 4  
ACUTE TOXICITY (dermal) - Category 4  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN CORROSION/IRRITATION - Category 1B  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
SKIN SENSITIZATION - Category 1  
GERM CELL MUTAGENICITY - Category 2  
CARCINOGENICITY - Category 1B  
TOXIC TO REPRODUCTION (Fertility) - Category 1B  
TOXIC TO REPRODUCTION (Unborn child) - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

#### Composition/information on ingredients

## Section 15. Regulatory information

Name	Classification
1-Methoxy-2-propanol	FLAMMABLE LIQUIDS - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Phenol	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 GERM CELL MUTAGENICITY - Category 2
Formaldehyde	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Glycerol Methanol	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B
Disodium tetraborate decahydrate	

### SARA 313

	Product name	CAS number
<b>Form R - Reporting requirements</b>	Phenol Formaldehyde Methanol	108-95-2 50-00-0 67-56-1
<b>Supplier notification</b>	Phenol Formaldehyde Methanol	108-95-2 50-00-0 67-56-1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

<b>Massachusetts</b>	: The following components are listed: Methanol; Formaldehyde; 1-Methoxy-2-propanol; Phenol; Glycerol
<b>New York</b>	: The following components are listed: Methanol; Formaldehyde; Phenol
<b>New Jersey</b>	: The following components are listed: Methanol; Formaldehyde; 1-Methoxy-2-propanol; Phenol; Propane-1,2-diol; Glycerol
<b>Pennsylvania</b>	: The following components are listed: Methanol; Formaldehyde; 1-Methoxy-2-propanol; Phenol; Propane-1,2-diol; Glycerol

### California Prop. 65

**⚠ WARNING:** This product can expose you to chemicals including Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Formaldehyde, which is known to the State of California to cause cancer, and Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### Canadian lists



## Section 15. Regulatory information

**Canada inventory (DSL NDSL)** : All components are listed or exempted.

**Canadian NPRI** : The following components are listed: Methanol; Formaldehyde; 1-Methoxy-2-propanol; Phenol

**CEPA Toxic substances** : The following components are listed: Formaldehyde

## Section 16. Other information

### [Procedure used to derive the classification](#)

Classification	Justification
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN CORROSION/IRRITATION - Category 1B	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
GERM CELL MUTAGENICITY - Category 2	Calculation method
CARCINOGENICITY - Category 1B	Calculation method
TOXIC TO REPRODUCTION (Fertility) - Category 1B	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
AQUATIC HAZARD (ACUTE) - Category 3	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method

### [History](#)

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**Prepared by** : KMK Regulatory Services Inc.

**Key to abbreviations** : ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations

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