

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name : LEX

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture : Arterial Embalming Fluid

Use of the substance/mixture : For professional use only

**1.3. Details of the supplier of the safety data sheet**THE CHAMPION COMPANY  
400 Harrison Street  
Springfield, Ohio 45505Lucentt Limited  
40 Ben Lomond Crescent  
Auckland, New Zealand

Telephone No. (937) 324-5681

Phone: 09 273 8114

**1.4. Emergency telephone number**

INFOTRAC: 1-800-535-5053 DOMESTIC or 352-323-3500 INTERNATIONAL

National Poisons Centre 0800 764 766

Hazardous Substance Emergency 0800 CHEMCALL (0800 243 622)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GHS-US classification**

Flam. Liq. 4	H227
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Dam. 1	H318
Resp. Sens. 1	H334
Skin Sens. 1	H317
Carc. 1A	H350

**2.2. Label elements****GHS-US labelling**

Hazard pictograms (GHS-US) :



GHS05

GHS07

GHS08

Signal word (GHS-US) :

: Danger

Hazard statements (GHS-US) :

: H227 - Combustible liquid  
H302+H332 - Harmful if swallowed or if inhaled  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H350 - May cause cancer

Precautionary statements (GHS-US) :

: P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking  
P260 - Do not breathe dust, fume, mist, spray, vapors  
P261 - Avoid breathing dust, fume, mist, spray, vapors  
P264 - Wash hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only in a well-ventilated area  
P272 - Contaminated work clothing must not be allowed out of the workplace  
P280 - Wear protective clothing, protective gloves, eye protection, face protection  
P285 - In case of inadequate ventilation wear respiratory protection  
P301+P312 - If swallowed: Call a POISON CENTER  
P302+P352 - If on skin: Wash with plenty of 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+P313 - If exposed or concerned: Get medical attention  
 P310 - Immediately call a POISON CENTER  
 P312 - Call a POISON CENTER  
 P330 - Rinse mouth  
 P332+P313 - If skin irritation occurs: Get medical attention  
 P333+P313 - If skin irritation or rash occurs: Get medical attention  
 P342+P311 - If experiencing respiratory symptoms: Call a doctor  
 P362 - Take off contaminated clothing and wash before reuse  
 P370+P378 - In case of fire: Use alcohol resistant foam, dry powder, carbon dioxide (CO<sub>2</sub>) to extinguish  
 P403+P235 - Store in a well-ventilated place. Keep cool  
 P405 - Store locked up  
 P501 - Dispose of contents and container to comply with applicable local, state, national and international regulation.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Isopropyl alcohol	(CAS No) 67-63-0	<11	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Formaldehyde	(CAS No) 50-00-0	< 8.5	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H335
Glutaraldehyde	(CAS No) 111-30-8	<6	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335
Methyl alcohol	(CAS No) 67-56-1	< 3	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapor), H331 STOT SE 1, H370
Boric acid, disodium salt, pentahydrate	(CAS No) 12179-04-3	<2.5	Repr. 1B, H360
Boric acid (H <sub>3</sub> BO <sub>3</sub> )	(CAS No) 10043-35-3	<2	Repr. 1B, H360
Phenol	(CAS No) 108-95-2	<0.9	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Muta. 2, H341 STOT RE 2, H373

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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).

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|---------------------------------------|--|
| First-aid measures after inhalation   | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Keep victim warm and rested. Seek medical attention immediately. If breathing stops, give artificial respiration. Transfer to hospital rapidly. Call a doctor.  |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Immediately call a doctor. Wash contaminated clothing before reuse. Get medical attention.   |
| First-aid measures after eye contact  | : In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. Seek medical attention immediately. |
| First-aid measures after ingestion    | : If swallowed, rinse mouth with water (only if the person is conscious). Immediately call a POISON CENTER. Seek medical advice (show the label where possible). Do NOT induce vomiting. Give water or milk if the person is fully conscious.  |

### 4.2. Most important symptoms and effects, both acute and delayed

- |                                      |   |
|--------------------------------------|---|
| Symptoms/injuries after inhalation   | : Harmful if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer by inhalation. May cause respiratory irritation. Difficulty in breathing. If user operation generate fume: Inhalation of phenol vapors can lead to damage of the bronchial system and pulmonary oedema. Systemic damage to kidneys, liver and heart as well as neuropsychiatric disturbances are produced. Excessive concentrations may cause nervous system depression, headache, and weakness leading to unconsciousness. Causes damage to liver through prolonged or repeated exposure if inhaled.                                    |
| Symptoms/injuries after skin contact | : Causes skin irritation. May cause an allergic skin reaction. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Strong skin absorption as main danger of phenol poisoning at the workplace with paralysis of the central nervous system (with lethal consequences in severe cases) as well as liver and kidney damage. Phenol destroys the nerve endings in the skin. Therefore absence of pain does not necessarily mean the skin has been properly decontaminated. Contains formaldehyde which can combine with epidermal protein to produce a hapten-protein couple capable of sensitising T-lymphocytes. Subsequent exposures cause a type IV hypersensitivity reaction. |
| Symptoms/injuries after eye contact  | : Causes serious eye damage. Redness and pain. Impaired vision, watering of eyes, defects in the cornea. Burning sensation. Inflammation. Can cause blindness.  |
| Symptoms/injuries after ingestion    | : Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard. Ingestion may cause nausea, vomiting and diarrhea. Swallowing can cause severe injury leading to death.  |

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- |                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Alcohol resistant foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a solid water stream as it may scatter and spread fire.     |

### 5.2. Special hazards arising from the substance or mixture

- |                  |  |
|------------------|--|
| Fire hazard      | : Combustible liquid.  |
| Explosion hazard | : May form flammable/explosive vapor-air mixture. Vapor heavier than air may travel considerable distance to a source of ignition and flash back. Heating will cause pressure rise with risk of bursting and subsequent explosion. |

### 5.3. Advice for firefighters

- |                                       |   |
|---------------------------------------|---|
| Firefighting instructions             | : Prevent runoff from entering drains, sewers or waterways. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.   |
| Protective equipment for firefighters | : Do not enter fire area without proper protective equipment, including respiratory protection.   |
| Other information                     | : Combustible liquid. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Use water spray to cool unopened containers. Move undamaged containers from immediate hazard area if it can be done safely. Alcohols burn with a pale blue flame which may be extremely hard to see under normal lighting conditions. Personnel may be able to feel the heat of the fire without seeing flames. Extreme caution must be exercised in fighting alcohol fires. On burning: release of carbon monoxide - carbon dioxide. unburned hydrocarbons. Formaldehyde. |

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid breathing dust, fume, mist, spray, vapors. Stop leak if safe to do so. Avoid contact with skin, eyes and clothing. Eliminate all ignition sources if safe to do so. Use special care to avoid static electric charges. No open flames. No smoking.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust, fume, mist, spray, vapors.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Wear proper protective equipment. Keep upwind of the spilled material and isolate exposure . Eliminate all sources of ignition, avoid sparks, flames and do not smoke in risk area. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Gather the product and place it in a spare container that has been suitably labelled. Store away from other materials. Use appropriate container to avoid environmental contamination. Thoroughly wash the area with water after a spill or leak clean-up. Ensure all national and local regulations are observed. Small spills may be flushed to a sanitary sewer with copious amounts of water, if in accordance with local, state or national legislation. Consult the appropriate authorities about waste disposal. Incinerate, dispose in sanitary landfill - if permitted.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Keep away from heat, sparks, open flames, hot surfaces. - No smoking. Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid contact with skin, eyes and clothing. Avoid breathing dust, fume, mist, spray, vapors. Work in a well-ventilated area. Before entering storage tanks and commencing any operation in a confined area check the atmosphere for oxygen content and flammability. . Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Keep away from clothing as well as other incompatible materials. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practices. Discard contaminated leather articles. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : A washing facility for eye and skin cleaning purposes should be present. Ensure adequate ventilation. Use explosion-proof electrical, ventilating, lighting, and equipment. Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Protect containers against physical damage. Keep only in the original container in a cool, well ventilated place. Store away from direct sunlight or other heat sources. Keep locked up and out of reach of children. Keep in fireproof place. Keep container tightly closed.

Incompatible materials : Strong acids, bases. Oxidizing agents.

Heat and ignition sources : Store away from direct sunlight or other heat sources.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<b>Methyl alcohol (67-56-1)</b>		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	250 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm

<b>Phenol (108-95-2)</b>		
USA ACGIH	ACGIH TWA (ppm)	5 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	19 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	5 ppm

<b>Isopropyl alcohol (67-63-0)</b>		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	400 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm

<b>Formaldehyde (50-00-0)</b>		
USA ACGIH	ACGIH Ceiling (ppm)	0.3 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	0.75 ppm
USA OSHA	OSHA PEL (STEL) (ppm)	2 ppm (see 29 CFR 1910.1048)

<b>Glutaraldehyde (111-30-8)</b>		
USA ACGIH	ACGIH Ceiling (ppm)	0.05 ppm (activated and inactivated)

<b>Boric acid, disodium salt, pentahydrate (12179-04-3)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (inhalable fraction)
USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (inhalable fraction)

<b>Boric acid (H3BO3) (10043-35-3)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (inhalable fraction)
USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (inhalable fraction)

#### 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. Provide adequate ventilation. Monitoring the effectiveness of engineering control is recommended.
Personal protective equipment	:	Avoid all unnecessary exposure. Wear protective clothing, protective gloves, eye protection/goggles, face protection. For certain operations, additional Personal Protection Equipment (PPE) may be required.
Hand protection	:	Wear impermeable protective nitrile gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Eye protection	:	Contact lenses should not be worn. Chemical goggles and face shields are required to prevent potential eye contact, irritation or injury.
Skin and body protection	:	Long sleeved protective clothing. Overall. Rubber apron, boots. safety foot-wear.
Respiratory protection	:	In case of insufficient ventilation. Wear suitable respiratory equipment. Approved organic vapor respirator.
Environmental exposure controls	:	Avoid discharge to the environment.
Other information	:	Do not eat, drink or smoke during use. Do not breathe dust, fume, mist, spray, vapors. Do not eat, drink or smoke when using this product.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Red
Odor	: Mild pleasant odor
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: 1
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 87.77 °C 190 °F )
Flash point	: 65.55 °C ( >150 °F COC)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: 1
Relative density	: No data available
Density	: ≈ 0.988 Specific Gravity
Solubility	: Water: completely soluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 6.7 - 72 vol %

#### 9.2. Other information

VOC content	: 12 % (Percent volatiles)
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions. Unstable on exposure to heat. Combustible liquid. May form flammable/explosive vapor-air mixture.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat, sparks, open flames, hot surfaces.

#### 10.5. Incompatible materials

Oxidizing agents. Strong acids. strong bases.

#### 10.6. Hazardous decomposition products

Formaldehyde. Fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	: Harmful if swallowed. Harmful if inhaled.
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<b>Methyl alcohol (67-56-1)</b>	
LC50 inhalation rat (ppm)	22500 ppm (Exposure time: 8 h)
ATE US (oral)	100.00000000 mg/kg bodyweight
ATE US (dermal)	300.00000000 mg/kg bodyweight
ATE US (vapors)	3.00000000 mg/l/4h

<b>Phenol (108-95-2)</b>	
LD50 dermal rat	525
LD50 dermal rabbit	630 mg/kg
ATE US (oral)	100.00000000 mg/kg bodyweight
ATE US (dermal)	630.00000000 mg/kg bodyweight
ATE US (gases)	700.00000000 ppmv/4h
ATE US (vapors)	3.00000000 mg/l/4h
ATE US (dust,mist)	0.50000000 mg/l/4h

<b>Isopropyl alcohol (67-63-0)</b>	
LD50 oral rat	1870 mg/kg
LD50 dermal rabbit	4059 mg/kg
LC50 inhalation rat (mg/l)	72600 mg/m <sup>3</sup> (Exposure time: 4 h)
ATE US (oral)	4396.00000000 mg/kg bodyweight
ATE US (dermal)	12800.00000000 mg/kg bodyweight

<b>Formaldehyde (50-00-0)</b>	
LD50 oral rat	600 mg/kg
LD50 dermal rabbit	270 mg/kg
LC50 inhalation rat (mg/l)	0.578 mg/l/4h
ATE US (oral)	100.00000000 mg/kg bodyweight
ATE US (dermal)	270.00000000 mg/kg bodyweight
ATE US (gases)	700.00000000 ppmv/4h
ATE US (vapors)	0.57800000 mg/l/4h
ATE US (dust,mist)	0.57800000 mg/l/4h

<b>Glutaraldehyde (111-30-8)</b>	
LD50 oral rat	252 mg/kg
LD50 dermal rabbit	560 µl/kg
LC50 inhalation rat (mg/l)	0.1 mg/l/4h
ATE US (oral)	252.00000000 mg/kg bodyweight
ATE US (vapors)	0.10000000 mg/l/4h
ATE US (dust,mist)	0.10000000 mg/l/4h

<b>Boric acid, disodium salt, pentahydrate (12179-04-3)</b>	
LD50 oral rat	2403 mg/kg
ATE US (oral)	2403.00000000 mg/kg bodyweight

<b>Boric acid (H3BO3) (10043-35-3)</b>	
LD50 oral rat	2660 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 0.16 mg/l/4h
ATE US (oral)	2660.00000000 mg/kg bodyweight

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: May cause cancer.

<b>Phenol (108-95-2)</b>	
IARC group	3 - Not classifiable

<b>Isopropyl alcohol (67-63-0)</b>	
IARC group	3 - Not classifiable

<b>Formaldehyde (50-00-0)</b>	
IARC group	1 - Carcinogenic to humans
National Toxicity Program (NTP) Status	2 - Known Human Carcinogens

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Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met) May cause damage to organs through prolonged or repeated exposure
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Potential Adverse human health effects and symptoms	: Harmful in contact with skin. Harmful if inhaled. Toxic if swallowed. Harmful if swallowed. Toxic in contact with skin.
Symptoms/injuries after inhalation	: Harmful if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer by inhalation. May cause respiratory irritation. Difficulty in breathing. If user operation generate fume: Inhalation of phenol vapors can lead to damage of the bronchial system and pulmonary oedema. Systemic damage to kidneys, liver and heart as well as neuropsychiatric disturbances are produced. Excessive concentrations may cause nervous system depression, headache, and weakness leading to unconsciousness. Causes damage to liver through prolonged or repeated exposure if inhaled.
Symptoms/injuries after skin contact	: Causes skin irritation. May cause an allergic skin reaction. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Strong skin absorption as main danger of phenol poisoning at the workplace with paralysis of the central nervous system (with lethal consequences in severe cases) as well as liver and kidney damage. Phenol destroys the nerve endings in the skin. Therefore absence of pain does not necessarily mean the skin has been properly decontaminated. Contains formaldehyde which can combine with epidermal protein to produce a hapten-protein couple capable of sensitising T-lymphocytes. Subsequent exposures cause a type IV hypersensitivity reaction.
Symptoms/injuries after eye contact	: Causes serious eye damage. Redness and pain. Impaired vision, watering of eyes, defects in the cornea. Burning sensation. Inflammation. Can cause blindness.
Symptoms/injuries after ingestion	: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard. Ingestion may cause nausea, vomiting and diarrhea. Swallowing can cause severe injury leading to death.

## SECTION 12: Ecological information

### 12.1. Toxicity

Phenol (108-95-2)	
LC50 fishes 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)
Isopropyl alcohol (67-63-0)	
LC50 fishes 1	9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
Formaldehyde (50-00-0)	
LC50 fishes 1	22.6 - 25.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	2 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	1510 µg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2	11.3 - 18 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Glutaraldehyde (111-30-8)	
LC50 fishes 1	7.8 - 22 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	2.6 - 4.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 Daphnia 2	0.56 - 1.0 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Boric acid (H3BO3) (10043-35-3)	
EC50 Daphnia 1	115 - 153 mg/l (Exposure time: 48 h - Species: Daphnia magna)



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### 12.2. Persistence and degradability

LEX	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

LEX	
Bioaccumulative potential	Not established.
Phenol (108-95-2)	
BCF fish 1	(no significant bioaccumulation)
Log Pow	1.47
Isopropyl alcohol (67-63-0)	
Log Pow	0.05 (at 25 °C)
Formaldehyde (50-00-0)	
Log Pow	0.35 (at 25 °C)
Glutaraldehyde (111-30-8)	
Log Pow	0.22 (at 25 °C)
Boric acid (H3BO3) (10043-35-3)	
BCF fish 1	0
Log Pow	-0.757 (at 25 °C)

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on ozone layer	: No additional information available
Effect on the global warming	: No additional information available
Other information	: Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations	: It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations. Dispose of contents and container to comply with applicable local, state, national and international regulation. Consult the appropriate authorities about waste disposal. Ensure all national and local regulations are observed. Do not pressurize, cut, weld, braze solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources. Do not re-use empty containers. Dispose in a safe manner in accordance with local and national regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Hazardous waste due to toxicity. Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT

Transport document description	: UN1760, Corrosive liquids, n.o.s. (Formaldehyde, Glutaraldehyde), 8, PGIII, ltd. qty.
Hazard labels (DOT)	: 8 - Corrosive



Packing group (DOT)	: III - Minor Danger
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L

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DOT Quantity Limitations Cargo aircraft only (49 : 60 L  
CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

### Additional information

Other information : No supplementary information available.

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

<b>Methyl alcohol (67-56-1)</b>	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
SARA Section 313 - Emission Reporting	1.0 %
<b>Phenol (108-95-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302 Listed on United States SARA Section 313	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 - 10000
SARA Section 313 - Emission Reporting	1.0 %
<b>Isopropyl alcohol (67-63-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
SARA Section 313 - Emission Reporting	1.0 % (only if manufactured by the strong acid process, no supplier notification)
<b>Formaldehyde (50-00-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302 Listed on United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500
SARA Section 313 - Emission Reporting	0.1 %

### 15.2. International regulations

#### CANADA

<b>Phenol (108-95-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class E - Corrosive Material
<b>Isopropyl alcohol (67-63-0)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Formaldehyde (50-00-0)</b>	
Listed on the Canadian DSL (Domestic Substances List)	

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<b>Formaldehyde (50-00-0)</b>	
WHMIS Classification	Class A - Compressed Gas Class B Division 1 - Flammable Gas Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Glutaraldehyde (111-30-8)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
<b>Boric acid (H3BO3) (10043-35-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

### NEW ZEALAND

HSNO Approval Number	HSR 002567
ERMA Group Standard	Embalming Products (Flammable, Toxic [6.1], Corrosive) Group Standard 2006
HSNO controls: Trigger quantities beyond which site and storage conditions apply:	
Fire extinguishers:	500 L
Response plans and secondary containment:	100 L
Signage:	250 L
Approved handler test certificate:	Required for HSNO Class 6 substance
Tracking requirements:	6.1B substances must comply with the Hazardous Substances (Tracking) Regulations 2001.
This information is subject to the conditions and exceptions detailed in the relevant Group Standard available from <a href="http://ermanız.govt.nz/hs/groupstandards/index.html">http://ermanız.govt.nz/hs/groupstandards/index.html</a> .	

### EU-Regulations

<b>Phenol (108-95-2)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Isopropyl alcohol (67-63-0)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Formaldehyde (50-00-0)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

#### 15.2.2. National regulations

<b>Phenol (108-95-2)</b>
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Poisonous and Deleterious Substances Control Law Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on the Canadian IDL (Ingredient Disclosure List)

**Isopropyl alcohol (67-63-0)**

Listed on the AICS (Australian Inventory of Chemical Substances)  
 Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
 Listed on the Japanese ISHL (Industrial Safety and Health Law)  
 Listed on the Korean ECL (Existing Chemicals List)  
 Listed on NZIoC (New Zealand Inventory of Chemicals)  
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
 Listed on the Canadian IDL (Ingredient Disclosure List)

**Formaldehyde (50-00-0)**

Listed on IARC (International Agency for Research on Cancer)  
 Listed on the AICS (Australian Inventory of Chemical Substances)  
 Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
 Listed on the Japanese ISHL (Industrial Safety and Health Law)  
 Listed on the Korean ECL (Existing Chemicals List)  
 Listed on NZIoC (New Zealand Inventory of Chemicals)  
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
 Japanese Poisonous and Deleterious Substances Control Law  
 Japanese Pollutant Release and Transfer Register Law (PRTR Law)  
 Listed as carcinogen on NTP (National Toxicology Program)  
 Listed on the Canadian IDL (Ingredient Disclosure List)

**15.3. US State regulations****Methyl alcohol (67-56-1)**

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
	Yes			

**Formaldehyde (50-00-0)**

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes				

**SECTION 16: Other information**

Other information : None.

Full text of H-phrases: see section 16:

Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Inhalation:vapor)	Acute toxicity (inhalation:vapor) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 1A	Carcinogenicity, Category 1A
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. 4	Flammable liquids Category 4
Muta. 2	Flammable liquids Category 1 flammable liquids Category 4
Repr. 1B	Reproductive toxicity Category 1B
Resp. Sens. 1	Sensitisation — Respiratory, category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Sensitisation — Skin, category 1

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STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H227	Combustible liquid
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic 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
H330	Fatal if inhaled
H331	Toxic if inhaled
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child
H370	Causes damage to organs
H373	May cause damage to organs through prolonged or repeated exposure

### HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur  
Flammability : 2 Moderate Hazard  
Physical : 0 Minimal Hazard

SDS US (GHS HazCom 2012)

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