



1. IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER

Product Name: Crisine Ultra

Product Use: Special purpose embalming chemical

Company/Brand Name: Lucentt Ltd

Address: Pauling Industries,
9 Volkner Place,
Albany,
Auckland - 0632

Supplier: Lucentt Limited
40 Ben Lomond Crescent
Pakuranga
Auckland

Phone: (09) 273 8114
Fax: (09) 273 8116
Email: info@lucentt.co.nz

Telephone Number: 0064 9 969 4996
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Emergency Telephone: 0800 764 766 National Poisons center).
0800 243 622 (0800 CHEMCALL – Hazardous Substance Emergency)





Date of MSDS Preparation: 01 Sep 2020.

2. HAZARDS IDENTIFICATION

This substance is classified as a dangerous good according to NZS5433: 2007

Hazardous according to criteria of NOHSC/ASCC.

Label elements

Hazard pictogram	 Chronic Toxic	 Toxic 6	 Flammable Liquid 3	 Corrosive 8
Signal word	Danger			

<u>HSNO Classification</u>	<u>Hazard Code</u>	<u>Hazard Statement</u>
3.1C	H226	Flammable liquid and Vapour
6.1C (Inhalation)	H331	Toxic if inhaled
6.6B	H341	Suspected of causing genetic defects
6.8B	H361	Suspected of damaging fertility or the unborn child
6.9A (Single exposure)	H370	Causes damage to organs.
6.9B (Repeated exposure)	H373	May cause damage to organs through prolonged or repeated exposure
8.2B	H314	Causes severe skin burns and eye damage
8.3A	H318	Causes serious eye damage
9.1D	H402	Harmful to aquatic life
9.2D	H423	Harmful to the soil environment
9.3B	H432	Toxic to terrestrial vertebrates



Prevention Code

P102

P103

P264

P201

P202

P210

P233

P240

P241

P281

P260

P264

P270

P271

P280

P273

Response Code

P301+P330+P331

P301+P312

P303+P361+P353

P101

P330

P391

P308 + P313

P307 + P311

Prevention Statement

Keep out of reach of children. This statement applies only where the substance is available to the general public.

Read label before use. This statement applies only where the substance is available to the general public.

Wash exposed skin thoroughly after handling.

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Keep away from heat, hot surfaces, open flames, sparks. - No smoking

Keep container tightly closed

Ground container and receiving equipment

Use explosion-proof electrical, ventilating, lighting, and equipment

Use personal protective equipment as required.

Do not breathe dust, fume, mist, spray, vapors

Wash hands thoroughly after handling

Do not eat, drink or smoke when using this product

Use only in a well-ventilated area

Wear protective clothing, protective gloves, eye protection, face protection

Avoid release to the environment

Response Statement

If swallowed: rinse mouth. Do NOT induce vomiting

If swallowed: Call a POISON CENTER if you feel unwell

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water

If medical advice is needed, have product container or label at hand.

Rinse mouth

Collect spillage

IF exposed or concerned: Get medical advice/ attention.

IF exposed: Call a POISON CENTER or doctor/physician.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS Number	Percentage (%)
Deionized water	NA	To 100
Phenol 88% Hydrate	108-95-2	<25.000
Monoethylene Glycol	107-21-1	<20.000
4-Chloro-3 - Cresol	1319-77-3	<10.000
Isopropyl Alcohol	67-63-0	<10.000
Methanol	67-56-1	<8.000
Dimethyl Sulphoxide	67-68-5	<1.000

4. FIRST AID MEASURES

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing holding the eyelids open If eye irritation continues seek medical advice or attention.

If on Skin Remove and wash affected areas with water. Wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash immediately with lots of water (15 minutes)/shower. Get medical attention.



If Inhaled Remove victim to fresh air and keep at rest in comfortable position for breathing. Keep victim warm and rested, seek medical attention immediately, immediately call doctor, if breathing stops, give artificial respiration, transfer to hospital rapidly.

If Ingestion Rinse mouth with water. Give water to drink 250mL to dilute material. Never give anything by mouth to an unconscious person. Do not induce vomiting, immediately call a POISON CENTER. Take immediately victim to hospital. Seek medical advice

Equipment at the Warehouse or bulk handling site: Eye wash facilities.

First Aid Facilities: Normal washroom facilities.

5. FIRE FIGHTING MEASURES

Hazard Type	Toxic, Flammable, Corrosive
Suitable Extinguishing media	Use suitable media for surrounding fire situation.
Precautions for firefighters and special protective clothing	Firefighters should wear self-contained breathing apparatus and full protective clothing to minimize exposure. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. If safe to do so, remove undamaged containers from fire area.
Specific Hazards	Flammable liquid and vapor. May form flammable/explosive vapor-air mixture. Thermal decomposition generates: Corrosive vapors

6. ACCIDENTAL RELEASE MEASURES

Land Spill or Leaks Wear proper protective equipment. Keep upwind of the spilled material and isolate exposure. Do NOT touch spilled material. Cleanup personnel must be trained in the safe handling of this product.

If possible, ventilate area by means of non-sparking, grounded ventilation system. Spills may be absorbed on non-reactive absorbents such as vermiculite. Place cells into individual plastic bags and then place into appropriate containers and close tightly for disposal. Ensure that cleanup procedures do not expose spilled material to any moisture. Immediately transport closed containers outside. Contain large spillage with sand or earth. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Notify authorities if liquid enters sewers or public water.

Gather the product and place it in a spare container that has been suitably labelled. Store away from other materials. Consult the appropriate authorities about waste disposal. Eliminate all sources of ignition, avoid sparks, flames and do not smoke in risk area. Thoroughly wash the area with water after a spill or leak clean-up. Ensure all local, state, national and international regulations are observed.

7. HANDLING AND STORAGE

Precautions for safe handling: Keep away from heat, sparks, open flames, hot surfaces. - No smoking. Handle empty containers with care because residual vapors are flammable. Work in a well-ventilated area. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using



this product. Wash contaminated clothing before reuse. It is essential that all who come into contact with this material maintain good standards of personal hygiene i.e. washing hands prior to eating, drinking or going to the toilet. Keep container closed and bung in place.

Conditions for safe storage: Ensure adequate ventilation, use explosion-proof electrical, ventilating, lighting, and equipment. Proper grounding procedures to avoid static electricity. Ground container and receiving equipment. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Store away from direct sunlight or other heat sources.

Incompatible materials: Strong acids, bases and Oxidizing agents.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Standards	Methyl alcohol: NZ WES TWA (ppm) = 200, NZ WES STEL (ppm) = 250, Phenol: NZ WES TWA (ppm) = 5, Cresol, all isomers: NZ WES TWA (ppm) = 5, Isopropyl alcohol: NZ WES TWA (ppm) = 400, NZ WES STEL (ppm) = 500, Ethylene glycol: NZ WES Ceiling (ppm) = 50.
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 footwear.
Respiratory Protection	In case of insufficient ventilation. Wear suitable/approved organic vapor respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Odor:	Characteristic
Boiling point	65.55 °C
Solubility:	Soluble in water
Specific gravity:	0.91-0.96 @ 20 °C
pH	6.9-7.1
Flash point	38.33 °C
Flammability	Flammable
Relative density (Water =1)	0.965
Volatile component (%vol)	25



10. STABILITY AND REACTIVITY

Chemical stability	Product is considered stable under normal condition of storage and handling. Unstable on exposure to heat. Flammable liquid and vapor, may form flammable/explosive vapor air mixture.
Conditions to avoid	Direct sunlight. Extremely high or low temperature. Open flame. Overheating. Heat. Sparks.
Incompatibility	Strong acids, Strong oxidizers and bases.
Hazardous decomposition product	Thermal decomposition generates: Corrosive vapors. May release flammable gases. Fume. Carbon monoxide. Carbon dioxide. Formaldehyde

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	Toxic if inhaled. Harmful in contact with skin. Harmful if swallowed.
Skin corrosion/ irritation:	Causes severe skin burns and eye damage.
Germ cell mutagenicity	Suspected of causing genetic defects
Carcinogenicity	Not classified
Symptoms/ Injuries after Inhalation	Danger of serious damage to health by prolonged exposure through inhalation. Excessive concentrations may cause nervous system depression, headache, and weakness leading to unconsciousness. Causes damage to liver through prolonged or repeated exposure if inhaled. Difficulty in breathing. Product contains phenol. 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.
Symptoms/ Injuries after Ingestion	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. Contains: Phenol and methanol. The swallowing of even a small amount of methanol can cause blindness or lead to death. The following may result in the case of a low dosage: nausea, headache, stomach-ache, vomiting and impaired vision (blurred vision, photophobia). There is furthermore risk of damage to liver, kidneys and heart. Effects may be delayed and manifest within 18 to 48 hours. Stinging sensation. Headache. Disorientation. Dizziness. Unconsciousness. Contains ethanol; constant ingestion of ethanol can lead to cirrhosis of the liver.
Symptoms/ Injuries after Skin	Absorbed through the skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Contains phenol. 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.
Symptoms/ Injuries after Eye	Cause serious eye damage. Redness and pain. Impaired vision, watering of eyes, defects in the cornea. Burning sensation. Inflammation. Can cause blindness. Causes serious eye damage.



Toxicity Information	Methyl alcohol: LC50 inhalation rat: 130.7 mg/l/4h, Phenol: LD50 dermal rabbit 630 mg/kg, Cresol, all isomers: LD50 oral rat 1454 mg/kg, LD50 dermal rat 245 mg/kg, LD50 dermal rabbit 2000 mg/kg, Isopropyl alcohol: LD50 oral rat 4396 mg/kg, LD50 dermal rabbit 12800 mg/kg, Ethylene glycol: LD50 oral rat 4000 mg/kg.
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12. ECOTOXICOLOGICAL INFORMATION

Methyl Alcohol (Methanol)

LC50 fish 96h: >12700mg/l

EC50 Daphnia: >10000 mg/l

Phenol

LC50 fish 96h: 11.9 – 50.5 mg/l (Species: Pimephales Promelas – flow through)

EC50 Daphnia: 4.24 – 10.7 mg/l (Species: Daphni magna (Static))

4-Chloro-3 – Cresol

LC50 fishes 1 96h: 12.8 mg/l (Species: Pimephales Promelas – flow through)

LC50 Fish 2: 10 mg/l (Species: Lepomis macrochirus (static))

Isopropyl Alcohol

LC50 fishes 1: 9640 mg/l (Species: Pimephales Promelas – flow through).

EC50 Daphnia 1: 13299 mg/l

LC50 Fish 2: 11130 mg/l (Species: Pimephales Promelas – flow through).

Ethylene Glucol

LC50 fishes 1: 41000 mg/l (Species: Oncorhynchus mykiss).

EC50 Daphnia 1: 46300 mg/l (Species: Daphnia magna).

LC50 Fish 2: 14-18 ml/l (Species: Oncorhynchus mykiss (static))

Persistence and degradability: Not established.

Bioaccumulation: Not established.

Mobility: No additional information available.

Other Information: Avoid release to environment.

13. DISPOSAL CONSIDERATIONS

Waste Disposal recommendations: Dispose of waste according to federal, E.P.A., state and local regulations.

Assure conformity with all applicable regulations.

Do not pressurize, cut, weld braze solder, drill grind, or expose containers to flames, sparks, hot or other potential ignition sources. Do not re-use empty containers.

Additional Information: Handle empty containers with care because residual vapors are flammable.

14. TRANSPORT INFORMATION

Classified as a dangerous good according to NZS 5433:2012 and the land transport rule: Dangerous goods 2005. Transport.



Road and Rail Transport (ADG/DOT)

UN No	2924
Proper Shipping Name	Flammable, Corrosive, N.O.S (Contains Isopropanol, methanol and phenol)
Packing Group	III
DG Class	3 – Flammable liquid
Sub-risk class	8 – Corrosive
Limited Quantities	5 L

Marine Transport (IMO/IMDG)

UN No	2924
Proper Shipping Name	Flammable, Corrosive, N.O.S (Contains Isopropanol, methanol and phenol)
Packing Group	III
DG Class	3- Flammable liquid
Sub-risk class	8 Corrosive
Limited Quantities	5 L

Air Transport (ICAO/IATA)

No Additional information available.

15. REGULATORY INFORMATION

This substance should be managed in accordance with the requirement specified in the Embalming products (Flammable, Toxic (6.1), Corrosive) Group standard 2006, HHSNO Approval number: HSR002564

Approved handler test certificate: Required (HSNO Class 6).

Tracking: Not required.

16. OTHER INFORMATION

This SDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this SDS in the context of how the product will be handled in the workplace and in conjunction with other materials. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Contact Person/Point Environmental Services Manager - 09 969 4996

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