



**SANTER SUPPLIES**  
CREATE LASTING MEMORIES WITH QUALITY

# TriniSpray

## Safety Data Sheet

### 1. Identification of Substance & Company

#### Product

Product name	TriniSpray
Product code	not assigned
HSNO approval	HSR002563
Approval description	Embalming Products (Flammable) Group Standard 2020
UN number	1170
Proper Shipping Name	ETHANOL SOLUTION
DG class	3
Packaging group	III
Hazchem code	3Y
Uses	Sanitizer

#### Company Details

Company	<b>SANTER SUPPLIES</b>
Address	18 Faulke Avenue Wainuiomata Lower Hutt 5014 New Zealand
Website	<a href="http://www.santersupplies.com">www.santersupplies.com</a>

**Emergency Telephone Number: 0800 764 766**

### 2. Hazard Identification

#### Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002563, Embalming Products (Flammable) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

#### GHS 7 Classes

Flammable liquid category 3  
Eye irritant category 2

#### Hazard Statements

H226 - Flammable liquid and vapour.  
H319 - Causes serious eye irritation.

#### SYMBOLS

## WARNING



#### Other Classifications

There are no other classifications that are known to apply.

#### Precautionary Statements

<b>Prevention</b>	P103 - Read label before use. P210 - Keep away from ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/eye/face protection. P280 - Wear eye protection.
-------------------	--



### SANTER SUPPLIES

CREATE LASTING MEMORIES WITH QUALITY

<b>Response</b>	P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.
<b>Storage</b>	P403+P235 - Store in a well-ventilated place. Keep cool.
<b>Disposal</b>	P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

### 3. Composition / Information on Ingredients

Component	CAS/ Identification	Concentration
Ethanol	64-17-5	60-100%
Isopropanol	67-63-0	5-10%

This is a commercial product whose exact ratio of components may vary slightly. Trace quantities of impurities are also likely.

### 4. First Aid

#### General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

**Recommended first aid facilities** Ready access to running water is recommended. Accessible eyewash is recommended.

#### Exposure

<b>Swallowed</b>	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. Give a glass of water to drink.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Skin contact</b>	This product is non-irritating to skin. No further measures should be required.
<b>Inhaled</b>	Generally, inhalation of fumes/vapours/dusts is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor.

#### Advice to Doctor

Treat symptomatically

### 5. Firefighting Measures

<b>Fire and explosion hazards:</b>	Vapours may form an explosive mixture in air which can be ignited by many sources such as pilot lights, open flames, electrical motors, switches and static electricity. Carbon dioxide, extinguishing powder, foam.
<b>Suitable extinguishing substances:</b>	
<b>Unsuitable extinguishing substances:</b>	Unknown.
<b>Products of combustion:</b>	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.
<b>Protective equipment:</b>	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
<b>Hazchem code:</b>	3Y



**SANTER SUPPLIES**  
CREATE LASTING MEMORIES WITH QUALITY

# TriniSpray

## Safety Data Sheet

### 6. Accidental Release Measures

<b>Containment</b>	If greater than 10000L is stored, secondary containment and emergency plans to manage any potential spills must be in place. In all cases design storage to prevent discharge to storm water.
<b>Emergency procedures</b>	In the event of spillage alert the fire brigade to location and give brief description of hazard. Stop the source of the leak, if safe to do so. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Do not use sawdust. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately).
<b>Clean-up method</b>	Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
<b>Disposal</b>	Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.
<b>Precautions</b>	Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.

### 7. Storage & Handling

<b>Storage</b>	Store locked up. Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10. Location test certificates must be available if storing >500 L (closed > 5 L), 1500 L (closed ≤ 5 L), 250 L (open). Containers (and outer packaging) must bear the prescribed labelling, including the Hazchem code, UN number, flammability warning and name of contents.
<b>Handling</b>	Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements.

### 8. Exposure Controls / Personal Protective Equipment

#### Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m<sup>3</sup> for respirable particulates and 10mg/m<sup>3</sup> for inhalable particulates when limits have not otherwise been established.

NZ Workplace Exposure Stds	Ingredient	WES-TWA	WES-STEL
	ethanol	200ppm, 380mg/m <sup>3</sup> (oto)	800ppm, 1520mg/m <sup>3</sup> (oto)
	isopropanol	400ppm, 983mg/m <sup>3</sup>	500ppm, 1230mg/m <sup>3</sup>

#### Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

#### Personal Protective Equipment

<b>General</b>	Personal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate. Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be undertaken.
----------------	--



**SANTER SUPPLIES**  
CREATE LASTING MEMORIES WITH QUALITY

# TriniSpray

## Safety Data Sheet

### Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible. Select eye protection in accordance with AS/NZS 1337.

### Skin

### Respiratory

Protective gloves and clothing are not normally necessary. However, it is prudent to wear gloves when handling chemicals in bulk or for an extended period of time.

A respirator when airborne concentrations approach the WES (section 8). Respirators must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use a respirator with an organic vapour cartridge. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

### WES Additional Information

Not applicable

## 9. Physical & Chemical Properties

<b>Appearance</b>	clear colourless liquid
<b>Odour</b>	alcohol-like
<b>Odour Threshold</b>	no data
<b>pH</b>	6.6-7.5 (100%)
<b>Freezing/melting point</b>	no data
<b>Boiling Point</b>	no data
<b>Flashpoint</b>	24°C (closed cup)
<b>Flammability</b>	no data
<b>Upper &amp; lower flammable limits</b>	no data
<b>Vapour pressure</b>	no data
<b>Vapour density</b>	no data
<b>Specific gravity/density</b>	0.84-0.844
<b>Solubility</b>	miscible in water
<b>Partition coefficient</b>	no data
<b>Auto-ignition temperature</b>	no data
<b>Decomposition temperature</b>	no data
<b>Viscosity</b>	no data
<b>Particle Characteristics</b>	no data

## 10. Stability & Reactivity

<b>Stability</b>	Stable
<b>Conditions to be avoided</b>	Flammable substance. Avoid heat, sparks, flames and any other sources of ignition. Containers should be kept closed in order to avoid contamination.
<b>Incompatible groups</b>	Strong oxidizing agents, peroxides, acid chlorides, acid anhydrides, alkali metals, ammonia.
<b>Substance Specific Incompatibility</b>	Thermal decomposition is highly dependant on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.
<b>Hazardous decomposition products</b>	Will react with strong oxidising materials.
<b>Hazardous reactions</b>	Stable

## 11. Toxicological Information

### Summary

IF SWALLOWED: may harmful. Symptoms include nausea, vomiting, gastrointestinal irritation, pain and diarrhoea. Impaired coordination, slurred speech, double vision, similar symptoms as alcohol intoxication. If vomit is aspirated into lungs, chemical pneumonitis is possible.

IF IN EYES: may cause eye irritation.

IF INHALED: may cause dizziness or drowsiness and similar symptoms as if swallowed.

CHRONIC TOXICITY: Repeated ingestion of ethanol by pregnant women may affect the developing foetus (foetal alcohol syndrome). Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.



#### Supporting Data

<b>Acute</b>	<b>Oral</b>	Using LD <sub>50</sub> 's for ingredients, the Acute Toxicity Estimate (ATE) (oral) for the mixture is >2,000 mg/kg. Data considered includes: Ethanol 7060mg/kg (rat), isopropanol 3600 mg/kg (mouse).
	<b>Aspiration</b>	This mixture is not considered an aspiration hazard.
	<b>Dermal</b>	Using LD <sub>50</sub> 's for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the mixture is >2,000 mg/kg. Data considered includes: Ethanol LDLo (rabbit): 20g/kg, isopropanol not reported.
	<b>Inhaled</b>	Using LD <sub>50</sub> 's for ingredients, the Acute Toxicity Estimate (ATE) (inhalation) for the mixture is >5mg/L/4h. Data considered includes: Ethanol LC <sub>50</sub> : 20000ppm/10H, isopropanol not reported.
<b>Chronic</b>	<b>Eye</b>	Ethanol and isopropanol are considered to be irritating to the eyes.
	<b>Skin</b>	No data for mixture is available. The mixture is not considered to be a skin irritant.
	<b>Sensitisation</b>	No data for mixture is available. No ingredient present at concentrations > 0.1% is considered a sensitizer.
	<b>Mutagenicity</b>	No data for mixture is available. No ingredient present at concentrations > 0.1% is considered a mutagen.
	<b>Carcinogenicity</b>	No ingredient present at concentrations > 0.1% is considered a carcinogen by the EPA. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.
	<b>Reproductive / Developmental</b>	No data for mixture is available. There is limited evidence of effects to the unborn child for high doses of ethanol. Ethanol is not classified as a reproductive toxicant by the EPA.
	<b>Systemic</b>	Ethanol and isopropanol are considered central nervous system depressant. Chronic exposure (by ingestion) causes effects to the brain, liver and kidney. Ethanol is not classified as STOT by the EPA.
	<b>Aggravation of existing conditions</b>	None known.

## 12. Ecological Data

#### Summary

This mixture is not considered harmful towards the environment. In all cases prevent run-off to drains, sewers and waterways.

#### Supporting Data

<b>Aquatic</b>	Using EC <sub>50</sub> 's for ingredients, the calculated EC <sub>50</sub> for the mixture is > 100 mg/L. Data considered includes: Ethanol LC <sub>50</sub> Fish (96h) 11000mg/L, LC <sub>50</sub> Crustaceans (48h) 9280mg/L.
<b>Bioaccumulation</b>	Ethanol is readily biodegradable. The Half-life of ethanol in surface water ranges from 6.5 to 26 hours. Atmospheric degradation is expected to be rapid.
<b>Degradability</b>	No evidence of soil toxicity for the mixture or any of the ingredients.
<b>Soil</b>	This product is not considered harmful to terrestrial vertebrates.
<b>Terrestrial vertebrate</b>	The mixture is not considered harmful to terrestrial invertebrates.
<b>Terrestrial invertebrate</b>	Not designed as a biocide.
<b>Biocidal</b>	Sanitiser

## 13. Disposal Considerations

<b>Restrictions</b>	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
<b>Disposal method</b>	Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.
<b>Contaminated packaging</b>	Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible reuse or recycle packaging.



**SANTER SUPPLIES**  
CREATE LASTING MEMORIES WITH QUALITY

# TriniSpray

## Safety Data Sheet

### 14. Transport Information

#### Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a hazardous substance for transport.

<b>UN number:</b>	1170	<b>Proper shipping name:</b>	ETHANOL SOLUTION
<b>Class(es)</b>	3	<b>Packing group:</b>	III
<b>Precautions:</b>	Flammable liquid	<b>Hazchem code:</b>	3Y

#### IMDG

<b>UN number:</b>	1170	<b>Proper shipping name:</b>	ETHANOL SOLUTION
<b>Class(es)</b>	3	<b>Packing group:</b>	III
<b>Precautions:</b>	Flammable liquid	<b>EmS</b>	F-E, S-D

#### IATA

<b>UN number:</b>	1170	<b>Proper shipping name:</b>	ETHANOL SOLUTION
<b>Class(es)</b>	3	<b>Packing group:</b>	III
<b>Precautions:</b>	Flammable liquid	<b>ERG Guide</b>	127

### 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002563, Embalming Products (Flammable) Group Standard 2020. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

#### Specific Controls

Key workplace requirements are:

SDS	To be available within 10 minutes in workplaces storing any quantity.
Inventory	An inventory of all hazardous substances must be prepared and maintained.
Packaging	All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied
Labelling	Must comply with the Hazardous Substances (Labelling) Notice 2017.
Emergency plan	Required if > 10000L is stored.
Certified handler	Required if > not required is handled or stored.
Tracking	This substance is required to be tracked if > not required is present.
Bunding & secondary containment	Required if > 10000L is stored.
Signage	Required if > 1000L is stored.
Location compliance certificate	Required if > 500 L (closed > 5 L), 1500 L (closed ≤ 5 L), 250 L (open) is stored.
Flammable zone	Must be established if > 100 L (closed containers), 25 L (decanting), 5 L (open occasionally), 1 L (open containers in continuous use) is stored.
Fire extinguisher	If > 500L present.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

#### Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.



**SANTER SUPPLIES**  
CREATE LASTING MEMORIES WITH QUALITY

# TriniSpray

## Safety Data Sheet

### 16. Other Information

#### Abbreviations

<b>Approval Code</b>	Approval HSR002563, Embalming Products (Flammable) Group Standard 2020 Controls, EPA. <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>
<b>CAS Number</b>	Unique Chemical Abstracts Service Registry Number
<b>EC<sub>50</sub></b>	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
<b>EPA</b>	Environmental Protection Authority (New Zealand)
<b>GHS</b>	Globally Harmonised System of Classification and Labelling of Chemicals, 7 <sup>th</sup> revised edition, 2017, published by the United Nations.
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
<b>HSNO</b>	Hazardous Substances and New Organisms (Act and Regulations)
<b>IARC</b>	International Agency for Research on Cancer
<b>LEL</b>	Lower Explosive Limit
<b>LD<sub>50</sub></b>	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
<b>LC<sub>50</sub></b>	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
<b>NZIoC</b>	New Zealand Inventory of Chemicals
<b>STEL</b>	Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
<b>STOT RE</b>	System Target Organ Toxicity – Repeated Exposure
<b>STOT SE</b>	System Target Organ Toxicity – Single Exposure
<b>TWA</b>	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
<b>UEL</b>	Upper Explosive Limit
<b>UN Number</b>	United Nations Number
<b>WES</b>	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone.

#### References

<b>Data</b>	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
<b>Controls</b>	EPA notices, <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> , Health and Safety at Work (Hazardous Substances) Regulations 2017, <a href="http://www.legislation.govt.nz">www.legislation.govt.nz</a>
<b>WES</b>	The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site – <a href="http://www.worksafe.govt.nz">www.worksafe.govt.nz</a> .
<b>Other References:</b>	Suppliers SDS

#### Review

<b>Date</b>	Reason for review
<b>February 2025</b>	Not applicable - New SDS

#### Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email [info@datachem.co.nz](mailto:info@datachem.co.nz) or phone: +64 21 1040951.

