

**MATERIAL SAFETY DATA SHEET**

# Spring Fresh Disinfectant Concentrate

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**SECTION 1.**

## Identification of the Substance and Supplier

<b>PRODUCTS APPLICABLE</b>	Spring Fresh Disinfectant Concentrate: 5L, 20L, 200L, 1000L
<b>PRODUCT USE</b>	Household/Industrial/Institutional: Cleaning product
<b>SUPPLIER</b>	Simms Jones Ltd, 217 Lichfield St, Christchurch
<b>PHONE</b>	(03) 366 5769
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<b>EMERGENCY CONTACT</b>	Craig Keenan 027 291 6181

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**SECTION 2.**

## Hazards Identification

### HAZARDS

Serious eye damage/eye irritation Category 1, Skin corrosion/irritation Category 1B,  
Acute toxicity: Oral Category 5, Aquatic toxicity (Acute) Category 1

### HAZARD STATEMENTS

Danger. Causes severe burns and eye damage. May be harmful if swallowed. Very toxic to aquatic life.

### PREVENTION STATEMENTS

Keep out of reach of children. Read label before use. Wear protective gloves/clothing and eye/face protection.  
Do not breathe mist or spray. Wash hands thoroughly after handling. Avoid release to the environment.

### RESPONSE STATEMENTS

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

### STORAGE STATEMENT

Store locked up.

### DISPOSAL STATEMENT

Triple rinse empty container before offering for recycling or disposal.

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SECTION 3.

### Composition and Information on Ingredients

INGREDIENT	PROPORTION	CAS NUMBER
C12-14 Alcohol Ethoxylate	<25%	68439-50-9
Benzalkonium Chloride	<20%	68424-85-1

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SECTION 4.

### First Aid Measures

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**IF ON SKIN (or hair):** Remove immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

**IF INHALED:** Remove to fresh air and keep at rest in a position comfortable for breathing.

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SECTION 5.

### Fire-Fighting Measures

<b>EXTINGUISHING MEDIA</b>	Foam, CO <sub>2</sub> , dry chemical, or water fog
<b>COMBUSTION PRODUCTS</b>	None known
<b>FIRE-FIGHTING PROCEDURES</b>	Normal fire-fighting procedures may be used

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SECTION 6.

### Accidental Release Measures

<b>EMERGENCY PROCEDURES</b>	No special procedures required
<b>ENVIRONMENTAL PRECAUTIONS</b>	Avoid release to the environment
<b>SPILL CONTROL</b>	Collect leaking liquid in sealable containers, absorb liquid in inert absorbent, and wash contaminated area with plenty of water

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SECTION 7.

### Handling and Storage

<b>HANDLING PRECAUTIONS</b>	Wear protective gloves/clothing and eye/face protection. Do not breathe mist or spray. Wash hands thoroughly after handling. Product residue may remain on/in empty containers. Use all precautions for handling the product in handling the empty container and residue.
<b>STORAGE</b>	Store locked up. Keep out of reach of children.

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## SECTION 8.

### Exposure Controls/Personal Protection

EXPOSURE LIMITS	No value assigned for this specific material by Worksafe
ENGINEERING CONTROLS	Ensure ventilation is adequate. Keep containers closed.
RESPIRATORY PROTECTION	Organic vapour respirator when mist or spray may be generated
PROTECTIVE GLOVES	Nitrile rubber
EYE PROTECTION	Splash-proof goggles

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## SECTION 9.

### Physical and Chemical Properties

APPEARANCE	Clear blue liquid
ODOUR	Floral
ODOUR THRESHOLD	Not Available
pH	5-6
MELTING POINT/FREEZING POINT	<0°C
INITIAL BOILING POINT	>100°C
FLASH POINT	Not Flammable
FLAMMABILITY	Not Flammable
FLAMMABILITY OR EXPLOSIVE LIMITS	Not Flammable
VAPOUR PRESSURE	Not Determined
VAPOUR DENSITY	Not Determined
RELATIVE DENSITY	1.0
SOLUBILITY	Completely miscible with water
PARTITION CO-EFFICIENT: n-OCTANOL/WATER	Not Determined
AUTO-IGNITION TEMPERATURE	Not Applicable
DECOMPOSITION TEMPERATURE	Not Determined
KINEMATIC VISCOSITY	8.9x10 <sup>-7</sup> m <sup>2</sup> /s

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## SECTION 10.

### Stability and Reactivity

REACTIVITY	Not reactive with other chemicals or cleaners
STORAGE CONDITIONS	No special conditions required
INCOMPATIBLE SUBSTANCES	None known
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic organic vapours, amines, oxides of carbon and nitrogen, and hydrogen chloride

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SECTION 11.

## Toxicological Information

<b>ACUTE TOXICITY</b>	No acute effects
<b>SKIN CORROSION/IRRITATION</b>	Causes severe skin burns
<b>SERIOUS EYE DAMAGE/IRRITATION</b>	Causes serious eye damage
<b>RESPIRATORY OR SKIN SENSITISATION</b>	No sensitisation
<b>GERM CELL MUTAGENICITY</b>	No data available
<b>CARCINOGENICITY</b>	Not carcinogenic
<b>REPRODUCTIVE TOXICITY</b>	No reproductive toxicity
<b>SPECIFIC TARGET ORGAN TOXICITY</b>	
-SINGLE EXPOSURE	No specific organ toxicity
-REPEATED EXPOSURE	No specific organ toxicity
<b>ASPIRATION HAZARD</b>	No aspiration hazard

### TOXICITY

#### BENZALKONIUM CHLORIDE

##### ACUTE ORAL TOXICITY

STUDY: Rat, LD<sub>50</sub>  
VALUE: 344 mg/kg

##### ACUTE DERMAL TOXICITY

STUDY: Rat, LD<sub>50</sub>  
VALUE: 3340 mg/kg

##### EYE DAMAGE

STUDY: Rabbit, DOT method, 24 h  
RESULT: Corrosive

##### SKIN DAMAGE

Causes skin burns

##### SENSITISATION

STUDY: Guinea pig, Buehler test, OECD Test Guideline 406  
RESULT: Not sensitising

##### GENOTOXICITY IN VITRO

STUDY: Salmonella typhimurium, Ames test, OECD 471  
RESULT: Negative

STUDY: Human lymphocytes, Chromosome aberration test, OECD 473  
RESULT: Negative

#### DODECYL (C12) ALCOHOL ETHOXYLATE

STUDY: Human skin, 6mg, 3 days  
RESULT: Moderate irritation  
SOURCE: Toxicology Review. EPA TSCA Chemical Inventory, 1989.

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## SECTION 12.

### Ecological Information

<b>BIODEGRABILITY</b>	Rapidly Degradable
<b>BIOACCUMULATIVE POTENTIAL</b>	Not Bioaccumulative
<b>MOBILITY IN SOIL</b>	Not Determined

#### BIODEGRADABILITY

##### BENZALKONIUM CHLORIDE

STUDY: OECD Confirmatory Test

VALUE: >90%

STUDY: CO<sub>2</sub> evolution

VALUE: 95.5%

STUDY: OECD 301 B

RESULT: Readily biodegradable

#### ECOTOXICITY

##### BENZALKONIUM CHLORIDE

STUDY: Rainbow trout (*Oncorhynchus mykiss*), 96 h, LC<sub>50</sub>

VALUE: 0.93 mg/L

STUDY: Fathead minnow (*Pimephales promelas*), 96 h, LC<sub>50</sub>

VALUE: 0.28 mg/L

STUDY: Water flea (*Daphnia magna*), 48 h, EC<sub>50</sub>

VALUE: 0.016 mg/L

STUDY: Green algae (*Pseudokirchneriella subcapitata*), 72 h, ErC<sub>50</sub>

VALUE: 0.049 mg/L

STUDY: Activated sludge, respiration inhibition, 3 h, EC<sub>50</sub>

VALUE: 7.75 mg/L

##### ALCOHOLS, C12-C14, ETHOXYLATED

CLASSIFICATION: 9.1A

REMARK: Classification based on company data supporting this classification

R PHRASE: R50 Very toxic to aquatic organisms

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## SECTION 13.

### Disposal Considerations

<b>DISPOSAL</b>	Triple rinse empty container before offering for recycling or disposal
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## SECTION 14.

### Transportation Information

<b>UN NUMBER</b>	1903
<b>SHIPPING NAME</b>	Disinfectant, Liquid, Corrosive, NOS
<b>DANGEROUS GOODS CLASS</b>	8
<b>UN PACKING GROUP</b>	III
<b>ENVIRONMENTAL HAZARDS</b>	Very toxic to aquatic organisms
<b>SPECIAL PRECAUTIONS</b>	No special precautions required

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## SECTION 15.

### Regulatory Information

HSNO APPROVAL NUMBER	HSR002526
GROUP STANDARD	Cleaning Products (Corrosive) Group 2017
SPECIAL REQUIREMENTS	Not Applicable

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## SECTION 16.

### Other Information

Date Issued: 24-10-2018

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## ABBREVIATIONS

### DOT

United States Department of Transportation

### EC<sub>50</sub> (Half maximal effective concentration)

The concentration of a drug, antibody, or toxicant which induces a response halfway between the baseline and maximum after a specified exposure time.

### EPA TSCA

United States Environmental Protection Agency Toxic Substances Control Act

### ErC<sub>50</sub> (Half maximal effective rate concentration)

The concentration of a drug, antibody, or toxicant which results in a 50% reduction in growth rate after a specified exposure time.

### LC<sub>50</sub> (Lethal Concentration 50%)

The concentration of a drug, antibody, or toxicant that kills half of a population.

### OECD

Organisation for Economic Co-operation and Development

### UN

United Nations

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