

# Green Pine Disinfectant

## Safety Data Sheet

### 1. Identification of Substance & Company

#### Product

|                      |   |
|----------------------|---|
| Product name         | Green Pine Disinfectant                                   |
| HSNO approval        | HSR002530   |
| Approval description | Cleaning Products (Subsidiary Hazard) Group Standard 2020 |
| UN number            | NA  |
| DG class             | NA  |
| Proper Shipping Name | NA  |
| Packaging group      | NA  |
| Hazchem code         | NA  |
| Uses                 | Cleaning agent  |

#### Company Details

|                  |  |
|------------------|--|
| Company          | <b>Totara Industries NZ Limited</b>              |
| Physical Address | 24 Neil Park Drive<br>East Tamaki<br>New Zealand |
| Postal Address   | 09 273 8855                                      |
| Telephone        | 09 274 6945                                      |

**Emergency Telephone Number: 0508 888 444**

### 2. Hazard Identification

#### Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002530, Cleaning Products (Subsidiary Hazard) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Minimum Degrees of Hazard) Notice 2020.

| GHS 7 Classes         | Hazard Statements              |
|-----------------------|--------------------------------|
| Skin irritation cat 2 | H315 - Causes skin irritation. |
| Eye irritation cat 2  | H320 - Causes eye irritation.  |

#### SYMBOLS

## WARNING



#### Other Classifications

There are no other classifications that are known to apply.

#### Precautionary Statements

P103 - Read label before use.  
P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves/eye protection.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P332+P313 - If skin irritation occurs: Get medical advice/ attention.  
P362 - Take off contaminated clothing and wash before re-use.  
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.  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

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### 3. Composition / Information on Ingredients

| Component                                    | CAS/ Identification | Conc (%) |
|--|---------------------|----------|
| water  | 7732-18-5           | >80%     |
| Surfactants                                  | proprietary         | 1-5%     |
| Benzododecinium chloride                     | 139-07-1            | <2%      |
| Ingredients not contributing to HSNO classes | Mixture             | balance  |

This is a commercial product whose exact ratio of components may vary. 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.

#### Exposure

**Swallowed** Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.  
**Eye contact** 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.  
**Skin contact** IF ON SKIN: Flush immediately with large amounts of water. If skin irritation occurs: Get medical advice/ attention.  
**Inhaled** Generally, inhalation of vapours 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

**Fire and explosion hazards:** There are no specific risks for fire/explosion for this chemical. It is not classed as flammable.  
**Suitable extinguishing substances:** Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.  
**Unsuitable extinguishing substances:** Unknown.  
**Products of combustion:** 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.  
**Protective equipment:** No special measures are required.  
**Hazchem code:** NA

### 6. Accidental Release Measures

**Containment** There is no current legal requirement for containment of this product. In all cases design storage to prevent discharge to storm water.  
**Emergency procedures** If a significant spill occurs:  
Stop leak if safe/necessary; Isolate area. Collect spill – see below; Transfer to container for disposal. Dispose of according to guidelines below (Section 13).  
**Clean-up method** 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.  
**Disposal** 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.  
**Precautions** No special protective clothing is normally necessary.

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### 7. Storage & Handling

|                 |   |
|-----------------|---|
| <b>Storage</b>  | 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. |
| <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         |
|----------------------------|-----------------------|------------------------------------|------------------|
|                            | No ingredients listed | 25ppm, 121mg/m <sup>3</sup> (skin) | data unavailable |

#### 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>Eyes</b>        |  | Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible, e.g. when handling the mixture in bulk.. Select eye protection in accordance with AS/NZS 1337.  |
| <b>Skin</b>        |   | If discomfort is felt (e.g., if pre-existing conditions exist, such as dermatitis, cuts or sensitive skin), gloves may be helpful. If you suffer from dermatitis type skin conditions, use gloves. Rubber gloves are recommended. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use.   |
| <b>Respiratory</b> |   | 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 a dust/mist filter. 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 green liquid          |
| <b>Odour</b>                              | pine odour                  |
| <b>pH</b>                                 | 11.0 - 11.5                 |
| <b>Vapour pressure</b>                    | no data                     |
| <b>Viscosity</b>                          | no data                     |
| <b>Boiling point</b>                      | ~100°C                      |
| <b>Volatile materials</b>                 | no data                     |
| <b>Freezing / melting point</b>           | no data                     |
| <b>Solubility</b>                         | soluble in water            |
| <b>Specific gravity / density</b>         | ~1g/cm <sup>3</sup> at 23°C |
| <b>Flash point</b>                        | not flammable               |
| <b>Danger of explosion</b>                | not explosive               |
| <b>Auto-ignition temperature</b>          | no data                     |
| <b>Upper &amp; lower flammable limits</b> | no data                     |
| <b>Corrosiveness</b>                      | non corrosive               |

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### 10. Stability & Reactivity

|   |   |
|---|---|
| <b>Stability</b>                          | Stable  |
| <b>Conditions to be avoided</b>           | Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames. |
| <b>Incompatible groups</b>                | Strong acids  |
| <b>Substance Specific Incompatibility</b> | none known  |
| <b>Hazardous decomposition products</b>   | none known  |
| <b>Hazardous reactions</b>                | none known  |

### 11. Toxicological Information

#### Summary

IF IN EYES: direct contact with the concentrate may cause eye irritation.  
IF ON SKIN: direct contact with the concentrate may result in mild skin irritation.  
CHRONIC TOXICITY: no effects are known.

#### Supporting Data

|                |  |   |
|----------------|--|---|
| <b>Acute</b>   | <b>Oral</b>  | Using LD <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (oral, rat) for the mixture is >5,000 mg/kg. Data considered includes: surfactants 2100 mg/kg (rat), benzododecinium chloride 400mg/kg (rat), 240mg (rat). |
|                | <b>Dermal</b>                                      | Using LD <sub>50</sub> 's for ingredients, the estimated LD <sub>50</sub> (dermal, rat) for the mixture is >5000 mg/kg.   |
|                | <b>Inhaled</b>                                     | Using LC <sub>50</sub> 's for ingredients, the estimated LC <sub>50</sub> (inhalation, rat) for the mixture is >20mg/L (mist).  |
|                | <b>Eye</b>   | The mixture is considered to be an eye irritant, because some of the ingredients (surfactants, benzododecinium chloride) present are considered eye irritants in more concentrated form.  |
|                | <b>Skin</b>  | The mixture is considered to be a skin irritant, because some of the ingredients (surfactants, ) present are considered skin irritants in more concentrated form.   |
| <b>Chronic</b> | <b>Sensitisation</b>                               | No ingredient present at concentrations > 0.1% is considered a sensitizer. The fragrance may contain small amount of contact sensitizers.   |
|                | <b>Mutagenicity</b>                                | 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.  |
|                | <b>Reproductive / Developmental</b>                | No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.  |
|                | <b>Systemic Aggravation of existing conditions</b> | No ingredient present at concentrations > 1% is considered a target organ toxicant. None known.   |

### 12. Ecological Data

#### Summary

This mixture is not classed as ecotoxic under GHS 7. In 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 >1mg/L. Data considered includes:<br><b>Benzododecinium chloride</b> 0.560mg/L (fish, as 50%), 0.12mg/L (aquatic invertebrates, as 50%),<br><b>Biodegradable surfactant</b> 0.29 mg/L (48hr, Daphnia magna), 0.05 mg/L (96hr, algae), 3.7 mg/l (96hr, Bluegill fish), LD <sub>50</sub> 900 mg/kg (Red-winged blackbird). |
| <b>Bioaccumulation</b>          | This mixture is not considered bioaccumulative.  |
| <b>Degradability</b>            | Benzododecinium chloride is considered biodegradable.  |
| <b>Soil</b>                     | No evidence of soil toxicity.  |
| <b>Terrestrial vertebrate</b>   | No evidence of ecotoxicity towards terrestrial vertebrates.  |
| <b>Terrestrial invertebrate</b> | No evidence of ecotoxicity towards terrestrial invertebrates.  |
| <b>Biocidal</b>                 | no data  |

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### 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 2020 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 2020 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. |

### 14. Transport Information

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

There are no specific restrictions for this product (not a dangerous good).

|                     |    |                              |    |
|---------------------|----|------------------------------|----|
| <b>UN number:</b>   | NA | <b>Proper shipping name:</b> | NA |
| <b>Class(es)</b>    | NA | <b>Packing group:</b>        | NA |
| <b>Precautions:</b> | NA | <b>Hazchem code:</b>         | NA |

### 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002530, Cleaning Products (Subsidiary Hazard) Group Standard 2020.  
All ingredients appear on the 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 2020.  |
| Emergency plan                  | Not required.   |
| Certified handler               | Not required.   |
| Tracking                        | Not required.   |
| Bunding & secondary containment | Not required.   |
| Signage                         | Not required.   |
| Location compliance certificate | Not required.   |
| Flammable zone                  | Not required.   |
| Fire extinguisher               | Not required.   |

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.

### 16. Other Information

#### Abbreviations

|                        |  |
|------------------------|--|
| <b>Approval Code</b>   | Approval HSR002530, Cleaning Products (Subsidiary Hazard) 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 2020, <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> | EU ECHA, ingredients SDS's, ChemIDplus  |

#### Review

|               |                                       |
|---------------|---------------------------------------|
| <b>Date</b>   | <b>Reason for review</b>              |
| August 2018   | Not applicable – new SDS              |
| November 2021 | HSNO to GHS, update of group standard |

#### 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.

