

Safety Data Sheet (SDS) Pine Kleen

Section 1: Identification

Product Identifier:	Pine Kleen
Recommended Use:	Pine Kleen is a concentrated pine disinfectant, deodorizer and general purpose cleaner. It is formulated with pine oil and a blend of QAC to kill a wide range of bacteria and germs. It is non-hazardous and biodegradable.
Supplier:	Consolidated System(S) Pte Ltd 38 Tuas View Loop Singapore 637695 Tel: +65 6861 6328 (Mon-Fri 8:30am – 5:30pm) Fax: +65 6861 3237 Email: sales@consolidatedsystem.com.sg

Section 2: Hazards Identification

GHS Classification

Skin Corrosion / Irritation	Category 2
Acute Toxicity - Oral	Category 4
Serious Eye Damage / Irritation	Category 2

GHS Label Elements

Pictograms:



Signal Word: Warning

Hazard Statements:

H302 + H312	Harmful if swallowed or in contact with skin.
H315 + H320	Causes skin and eye irritation.

Precautionary Statements:

P102:	Keep out of reach of children.
P103:	Read label before use.
P264:	Wash hands thoroughly after handling

- P280: Wear protective gloves
- P301 + P330 + P331: If Swallowed: Rinse mouth, Do NOT induce vomiting.
Wash out mouth with water and give 200-300mL of water to drink.
Obtain medical attention
- P303 + P361 + P353: If on Skin: Remove/take off immediately all contaminated clothing. Rinse skin with plenty of water. If symptoms develop, obtain medical attention.
- P304 + P340: If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if necessary.
- P352: (After handling) Wash hands thoroughly with soap and water.
- P363: Wash contaminated clothing before reuse.
- P305 + P351 + P338: If in eyes: SPEED IS ESSENTIAL! Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention. Remove contact lenses if present and easy to do.

Storage:

- P402 + P403 Store in a well-ventilated and dry place

Disposal:

- P501: Dispose of contents / containers in accordance with Singapore regulations.

Section 3: Composition / Information on Ingredients

Component Name	CAS	Composition
Natural Pine Oil	8002-09-3	5-15%
Alkylbenzyltrimethylammonium chloride	68424-85-1	1-10%
Isopropyl Alcohol	67-63-0	1-5%
Sodium Hydroxide	1310-73-2	1-5%

Section 4: First Aid Measures

General Advice:

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Seek medical advice if you feel unwell. Show this safety data sheet to the doctor in attendance.

Inhalation:

If inhaled, move person into fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if necessary.

Skin Contact:

After handling, wash hands thoroughly with soap and water. If on skin, remove/take off immediately all contaminated clothing. Rinse skin with water / shower. Wash contaminated clothing before reuse. If symptoms develop, obtain medical attention.

Eye Contact:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, seek medical advice.

Ingestion:

If Swallowed: Rinse mouth, Do NOT induce vomiting. Seek medical advice immediately.

Section 5: Fire-fighting Measures

Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific Hazards Arising From the Chemical:

Do not allow run-off from fire fighting to enter drains or water courses.

Special Protective Actions for Fire Fighters:

In event of fire, wear self-contained\ breathing apparatus.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Measures:

For personal protection, see section 8. Use personal protective equipment (e.g. gloves, boots) and ensure adequate ventilation. Avoid contact eyes and skin.

Environmental Precautions:

Do not flush into surface or sanitary sewer system. If the product contaminates rivers, reservoirs or drains, inform respective authorities.

Methods and Materials for Containment and Cleaning Up:

Soak up with inert absorbent material (e.g. sawdust, earth). Keep in suitable, closed containers for disposal. Disposal according to local regulations.

Section 7: Handling and Storage

Precautions for Safe Handling:

For personal protection, see section 8. Avoid contact with eyes, skin and clothing. Eating, drinking or smoking in work areas is prohibited. After handling, always wash hands thoroughly with soap and water. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed and properly and accurately labelled in a dry and well-ventilated place.

Directions for Fire and Explosion Protection:

Do not store with oxidants or explosive materials.

Section 8: Exposure Controls / Personal Protection

Control Parameters / Occupational Exposure Limits:

N.A.

Appropriate Engineering Control Measures:

Effective exhaust ventilation system. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection:

Respiratory Protection:

In case of vapour formation, use a respirator with an approved filter

Skin Protection:

Wear chemical resistant gloves such as Nitrile Rubber Gloves / PVC Gloves. Also recommended to wear chemical resistant safety boots. Always decontaminate your PPE after every use.

Eye Protection:

Wear safety glasses as a minimum eye protection. Conditions may warrant the use of chemical goggles and possibly a face shield. Consult your standard operating procedure or safety professional for advice.

Section 9: Physical and Chemical Properties

Appearance at 25°C	Brown Liquid
Odour:	Pine Fragrance
pH:	7.0 (+/- 1)
Freezing point:	Not applicable and/or not determined for this mixture
Initial boiling point / range:	Not applicable and/or not determined for this mixture
Flashpoint:	Not applicable and/or not determined for this mixture
Evaporation Rate:	Not applicable and/or not determined for this mixture
Flammability:	Not applicable and/or not determined for this mixture
Upper/lower flammability:	Not applicable and/or not determined for this mixture
Vapour Pressure:	Non volatile
Vapour Density:	Not applicable and/or not determined for this mixture
Relative Density:	1.0
Solubility in water at 25°C:	Completely soluble
Partition Coefficient:	Not applicable and/or not determined for this mixture
Auto-ignition temperature:	Not applicable and/or not determined for this mixture
Decomposition temperature:	Not applicable and/or not determined for this mixture
Viscosity:	Not available

Section 10: Stability and Reactivity

Reactivity:

N.a.

Chemical Stability:

Product is stable

Possibility of Hazardous Reactions:

N.a.

Conditions to Avoid:

Avoid heat, sparks, open flames and other ignition sources.

Incompatible Materials:

N.a.

Hazardous Decomposition Products:

May evolve toxic gas if heated to decomposition.

Section 11: Toxicological Information

Inhalation:

Low irritant. Over exposure to vapours/mists may result in respiratory irritation, nausea and headache. Occupational exposure to quaternary ammonium compounds has been reported to cause asthma, although rare. Due to the low vapour pressure an inhalation hazard is not anticipated, unless sprayed.

Skin:

Low irritant. Prolonged or repeated contact may result in mild irritation.

Eyes:

Irritant. Contact may result in irritation, lacrimation, pain and redness.

Ingestion:

Low toxicity. Ingestion of large quantities may result in nausea, vomiting and gastrointestinal irritation.

Section 12: Ecological Information

Ecotoxicity Effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Benzalkonium chloride derivatives/quaternary ammonium compounds are commonly used as disinfectants, indicating toxicity to microorganisms. Benzalkonium chloride is toxic to trout above 2ppm.

Persistence and Degradability

The product decomposes quickly in soil or water and fully biodegradable.

Bioaccumulative Potential

The ingredients used demonstrate low potential for bioaccumulation

Mobility in Soil

No available information

Other Adverse Effects N.A.**Section 13: Disposal Considerations**

Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations. Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts. The materials resulting from the clean-up operations may be hazardous wastes and therefore, subject to specific regulations. Use only licensed transporters and permitted facilities for waste disposal.

Section 14: Transport Considerations

UN Number: 1791 Class 8, packing group III

This product is not regulated under transport regulations.

Section 15: Regulatory Information**Applicable National Regulations:**

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subject to the SDS, labelling and other requirements in the Act/Regulations.

Environmental Protection and Management Act: This product is subject to the requirements in the Act/Regulations.

Section 16: Other Information

Usage information

Recommended Dilution (1 part of chemical to X parts of water)

Floor Cleaning:

Normal cleaning, dilute 1: 80 - 250ml to 20L of water

Heavy cleaning, dilute 1: 40 - 500ml to 20L of water

Date created: 20 May 2017

Date updated: 20 August 2019

Product proudly manufactured in Singapore.

Consolidated System(S) Pte Ltd is a one-stop distributor of professional cleaning machines, janitorial supplies and professional cleaning chemicals. Please feel free to contact us if you have any questions on this product or face any cleaning problems.

Disclaimer: This information is provided for the customer's investigation and independent verification. While the data is believed to be correct at time of publishing, the use of this data and of the product is beyond the manufacturer's control. Consolidated System(S) Pte Ltd shall in no event be responsible for any loss or damages whatsoever, directly or indirectly resulting from the publication or use of or reliance upon the data contained herein. No warranty, either expressed or implied, of merchantability, of fitness, or of any nature with respect to the product, or to the data, is made herein. In all cases, it is the responsibility of the user to determine the applicability of such information or the suitability of any products for their own particular purpose.

End