



MATERIAL SAFETY DATA SHEET

25 Pines Disinfectant with Pine Oil

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	25 Pines Disinfectant with Pine Oil
Synonym(s):	ST-85
General Use:	Disinfectant/Detergent
Formula ID No.:	SL65
Company:	Stearns Packaging Corporation 4200 Sycamore Avenue (53714) PO Box 3216 Madison, WI 53704-0216 Phone: 1-800-655-5008 / 1-608-246-5150 Fax: 1-608-246-5149
24 Hr. Emergency Contact:	CHEM-TEL 1-800-255-3924

2. HAZARDS IDENTIFICATION

Emergency Overview

Physical Appearance:	Clear yellow liquid.
Immediate Concerns:	Danger! Flammable Irritant. May be corrosive to the eyes. May cause irritation to the skin and respiratory system. May be harmful if swallowed.
<i>Potential Health Effects</i>	
Eyes:	May be corrosive to the eyes. Symptoms can include irritation, redness, scratching of the cornea, and tearing.
Skin:	May cause irritation to the skin.
Inhalation:	Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Ingestion:	May be harmful if swallowed.
Medical Conditions Aggravated:	None known.
Carcinogen listed by: IARC (None) NTP (None) OSHA9 (None) ACGIH (Unknown) Other (None)	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	%
Isopropanol	67-63-0	7 - 10
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	85409-23-0	1
Alkyl dimethyl benzyl ammonium chloride (C12-18)	68391-01-5	1

State Right-to-Know: Water; isopropanol; pine oil (CAS# 8002-09-3+94266-48-5); quaternary ammonium chloride; polyethylene glycol mono(nonyl phenyl)(CAS# 9016-45-9).

See Section 8 for Exposure Limits, if available.

4. FIRST AID MEASURES

Eyes:	Immediately flush with water for at least 15 minutes while holding eyelids open. Seek medical attention at once.
Skin:	Flush with large amounts of water. If irritation persists, get medical attention.
Ingestion:	<u>DO NOT INDUCE VOMITING.</u> Get immediate medical attention or advice.
Inhalation:	If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

5. FIREFIGHTING MEASURES

Extinguishing Media: Suitable: Unsuitable:	Dry chemical, foam, carbon dioxide, water fog. Not applicable
Hazardous Products of Combustion:	Oxides of nitrogen and ammonia.
Fire and Explosion Hazards:	Product contains a flammable solvent. Vapors may be released that travel long distances, ignite, and flash back.
Special protective equipment for fire-fighters:	Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.
Fire fighting procedures:	None known

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Surfaces may become slippery after spillage.
Environmental precautions:	Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.
Methods and materials for containment and cleaning up:	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do it without risk. Wear appropriate personal protective equipment during cleanup. Small Spills: Absorb with earth, sand, or other non-combustible material and transfer to containers for later disposal. Use clean non-sparking tools to collect absorbed material. Large Spills: Dike ahead of liquid spill for later disposal.

7. HANDLING AND STORAGE

Precautions for safe handling:	Keep this product from heat, sparks, or open flame. Avoid contact with skin and eyes. Wash thoroughly after handling. Wash hands before eating, drinking, smoking, or using toilet facilities. As with all chemicals, good industrial hygiene practices should be followed when handling this material.
Conditions for safe storage, including any incompatibilities:	DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. Keep the container tightly closed and in a cool, well-ventilated place. This material can accumulate static charge which may cause spark and become an ignition source.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines:

OSHA PEL

ACGIH TLV

Chemical Name:	TWA	STEL	TWA	STEL
Isopropanol	400 ppm;980 mg/m ³	500 ppm;1225 mg/m ³	200 ppm	400 ppm
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	N/A	N/A	N/A	N/A
Alkyl dimethyl benzyl ammonium chloride (C12-18)	N/A	N/A	N/A	N/A

Exposure guideline comments: ACGIH–American Conf. of Governmental Industrial Hygienists; PEL–Permissible Exposure Limit; TLV®–Threshold Limit Value; TWA–Time-Weighted Average; STEL–Short Term Exposure Limit ; OSHA–US Occupational Safety and Health Administration

Appropriate Engineering Controls:	Use only in well-ventilated areas. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.
Personal Prot. Equip. (PPE): Eye Protection: Skin Protection: Respiratory Protection: Work Hygienic Practices:	Wear chemical goggles and face shield. Eye wash fountain recommended. Wear suitable protective clothing. Use impervious gloves. Emergency showers. If vapors are present or irritation is experienced, NIOSH approved respiratory protection for ammoniacal vapors should be worn. Improper dilution or improper use of this product may result in skin and eye irritation, damage to surfaces and unsatisfactory cleaning performance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear yellow	Flammability:	Flammable 1C
Physical State:	Liquid	Lower Flammability Limit:	Not available
Odor:	Pine	Upper Flammability Limit:	Not available
Odor threshold:	Not determined	Percent volatile:	85.90% (w/w) incl. water
pH (Concentrate):	7.0 . 8.0	RVOC:	8.65% (IPA)
pH (Use Dilution):	Not available	Vapor density:	Estimated lighter than air
Melting/ Freezing Pt:	Not applicable	Specific gravity:	0.988g/ml (8.22 lb/gal)
Boiling Point:	100°C, 212°F	Water Solubility:	Complete
Flash Point:	36.1°C, 97°F PMCC	Partition coefficient:	Not available
Evaporation Rate:	Estimated slower than ethyl ether	Autoignition temperature:	Not available
Viscosity:	20 cPs	Decomposition temp:	Not available
		Pour Point:	Not available

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Freezing and extremes of heat
Incompatible Materials:	This product may react with strong oxidizing agents.
Hazardous Decomposition Products:	Upon decomposition, this product may yield oxides of nitrogen and ammonia.

11. TOXICOLOGICAL (HEALTH) INFORMATION

Likely Routes of Exposure:	Eyes, skin, mouth
Signs and Symptoms of Overexposure:	Irritation of eyes and skin.
Acute Health Effects:	
Eye contact:	See Section 2
Skin contact:	See Section 2
Inhalation:	See Section 2
Ingestion:	See Section 2
Target Organ Effects:	Eyes, skin, respiratory system
Chronic Effects:	See Section 2
Medical Conditions Aggravated by Exposure:	
Acute Toxicity Values:	<i>Isopropanol 67-63-0:</i>
Oral LD₅₀:	Rat: 5045 mg/kg; Mouse: 3600 mg/kg
Dermal LD₅₀:	Rabbit: 12800 mg/kg
Inhalation LC₅₀:	Rat: 16000 mg/kg/8H
Acute Toxicity Values:	<i>Pine Oil 8002-09-3:</i>
Oral LD₅₀:	Rat: 3200 mg/kg
Dermal LD₅₀:	Rabbit: 5 g/kg
Inhalation LC₅₀:	Not available

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:	No data available on finished product.
Persistence and degradability:	Not available
Bioaccumulative potential:	Not available
Mobility in soil:	Not available
Other adverse effects:	Not available

13. DISPOSAL CONSIDERATIONS

Disposal Method:	Comply with all local, state and federal regulations. Consult your state DNR or the EPA for specific questions. Wastewater should never enter a fresh water body without treatment.
Product Disposal:	Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
For Large/Small Spills:	Large Spills: Dike ahead of liquid spill for later disposal. Small Spills: Absorb with earth, sand, or other non-combustible material and transfer to containers for later disposal. Use clean non-sparking tools to collect absorbed material.
Empty Container:	Do not reuse empty container. Triple rinse empty container with water. Return metal drum then offer for reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers may be disposed of in a sanitary landfill, incinerated, or if allowed by local authorities, by burning. If burned, stay out of smoke. Offer for recycling if available. For containers 1 gallon or less: Do not reuse empty container (bottle, can bucket). Wrap container and put in trash.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT)

UN / NA Number:	Not regulated
Proper Shipping Name:	Disinfectant, NOI, liquid. Item 57100, Sub 3. Class 85
DOT Hazard Class:	Not regulated
Packing Group:	Not regulated
Marine Pollutant:	No data available
Special precautions:	Not applicable

Applies only during road transport. Any variation of the shipping description based on the packaging is not addressed.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

FDA Regulated:	None
EPA CERCLA RQ:	There is no calculable reportable quantity for this product.
EPA Registered:	1839-112-3640
EPA/DfE Recognized:	None
OSHA Flammability Classification:	Flammable 1C (flashpoint at/above 73°F and under 100°F)
TSCA Chemical Substance Inventory Status:	Excluded from TSC regulations (considered a pesticide).
Clean Water Act (CWA):	Not available
Clean Air Act (CAA):	Not available
SARA Section 311/312 (40 CFR 370) Hazards Categories: Fire: <input type="checkbox"/> Pressure Generating: <input type="checkbox"/> Reactivity: <input type="checkbox"/> Acute: <input type="checkbox"/> Chronic: <input type="checkbox"/>	None
SARA Title III Section 313 (40 CFR 372) Toxic Chemicals:	1.0% de minimis concentration (if mfrd. by strong acid process)
NSF Certified:	None
Green Seal Certified:	None

State Regulations:

California Proposition 65: This product may contain the following ingredient(s) known to the State of California to cause cancer, birth defects or other reproductive harm: Ethylene oxide (CAS 75-21-8)
State Right to Know: See Section 3

International Regulations:

WHMIS Classification: Not controlled

Class Legend: B-2 Flammable Liquid (flash pt <38°); B-3 Flammable Liquid (flash pt >38° & <93°); D-1B Toxic; D-2A Carcinogen; D-2B; Chronic Toxin; E Corrosive

16. OTHER INFORMATION

HMIS RATING

Concentrate		In Dilution
2	Health	0
2	Flammability	0
0	Physical Hazard	0
X	Personal Protection	N/A

Hazard Rating

0 = Insignificant
1 = Slight
2 = Moderate
3 = High
4 = Extreme

X=Consult your supervisor for specific handling directions.

N/A=Not available

Read and follow all label directions and precautions before using this product. KEEP OUT OF REACH OF CHILDREN.

References: www.osha.gov/dsg/hazcom/ghs.html; 49CFR Table (172.101 Hazardous Materials Table/UN#/Proper Shipping Names/PG);

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