

MATERIAL SAFETY DATA SHEET

I Product Identification

Product Name : Pine Disinfectant & Cleaner
Reference No : Norchem DC 411

II Composition/Information on Ingredients

Ingredient	CAS No	Percent
Isopropyl Alcohol	67-63-0	5-15%
Quaternary ammonium chlorides	68424-85-1/ 68424-95-3	0-5%
Pine Oil	8002-09-3	0-5%

III Hazards Identification

Routes of Entry : Inhalation. Ingestion

Inhalation : Product does not produce vapor.

Ingestion : Hazardous in case of ingestion.

Skin Contact : Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Eye Contact : Slightly hazardous in case of eye contact (irritant).

Chronic Effects : Repeated exposure may cause skin dryness and cracking.

Carcinogenic Effects : Not listed as carcinogen by OSHA, NTP or IARC.

IV First Aid Measures

Inhalation : Product does not produce vapor.

Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Skin Contact : Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Eye Contact : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention.

V Fire Fighting Measures

Flash Point	None
Flammable Limits	N.A
Fire-Fighting Procedures	None

VI Accidental Release Measures

Small spills can be taken up with an absorbent and placed in clean dry containers for later disposal.

VII Handling and Storage

Handling	Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire, minimize ignition sources.
Storage	Store in a cool dry place away from incompatible materials. Store and use away from heat, sparks, open flame, or any other ignition source.

VIII Exposure Controls/Personal Protection

Respiratory	Avoid breathing vapors or spray mists
Skin Protection	Rubber gloves
Eye Protection	Safety glasses

IX Physical and Chemical Properties

Color	Brown Liquid
Odour	Pine
Specific Gravity	1.09
Boiling Point	Not determined
Solubility	Easily soluble in cold water, hot water.
pH	8.0
VOC (Consumer)	100(g/l)

X Stability and Reactivity

Stability	The product is stable
Hazardous Decomposition Products	These products are carbon oxides (CO, CO ₂) and other organic materials.
Hazardous Polymerization	Will not occur
Incompatibilities	Reactive with oxidizing agents and open flames and sparks.

XI Toxicological Information

Toxicity to Animals	Pine Oil : ORAL (LD50): Acute: 4300mg/kg [Rat] DERMAL (LD50) Acute: 3000mg/kg [Rabbit] Quarternary ammonium chlorides : ORAL (LD50): Acute: 250mg/kg [Rat] Isopropyl Alcohol : ORAL (LD50): Acute: 5045mg/kg [Rat]
Chronic Effects on Humans	Not listed as carcinogen by OSHA, NTP or IARC

XII Ecological Information

Ecotoxicity	Not available
Biodegradable/OECD	Not available

XIII Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

XIV Transport Information

Proper Shipping Name	None
D.O.T. Classification	Not a DOT controlled material
UN Number	N.A

XV Regulatory Information

None

XVI Other Information

None

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