


SAFETY DATA SHEET

Section 1 - Identification

Product Identifier	PINE-QUAT Disinfectant Cleaner
Other means of identification	0237-M
Recommended use	Disinfectant Cleaner.
Recommended restrictions	EPA Registered Product. For Commercial and Industrial Use Only. This product is intended to be diluted prior to use.
Manufacturer / Importer / Supplier / Distributor Information	
Company Name	National Chemical Laboratories of PA, Inc.
Address	401 N. 10th Street - Philadelphia, PA 19123
Telephone	1 (215) 922-1200
Supplier Email	info@nclonline.com
Contact	CHEM-TEL
Emergency Phone	1 (800) 255-3924

Section 2 - Hazard(s) Identification

SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.

	Classification	Category
Physical Hazards	Flammable Liquids	3
Health Hazards	Sensitization, skin	1
	Serious eye damage/eye irritation	1
	Skin corrosion/irritation	2
OSHA defined hazards	Not Classified.	
Label Elements		
Hazard Symbol		
Signal Word	Danger	
Hazard Statement	Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.	
Precautionary statement		
Prevention	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection.	
Response	IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.	
Storage	Take precautionary measures against static discharge. Store in a well ventilated place. Keep container tightly closed. Keep cool. Store locked up.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazard(s) not otherwise classified (HNOC)	None known.	

Section 3 - Composition/Information on ingredients

Mixture			
Hazardous Components	Ingredient Name	CAS #	%
	2-Propanol	67-63-0	5 - 10
	Quaternary Ammonium chloride mixture	Mixture	1.5 - 2.5
	Alkyl (C12-16) dimethylbenzylammonium chloride (68424-85-1)		
	Octyl decyl dimethyl ammonium chloride (32426-11-2)		
	Didecyl dimethyl ammonium chloride (7173-51-5)		
	Diocetyl dimethyl ammonium chloride (5538-94-3)		
	Alcohol ethoxylate	68131-39-5	1 - 5

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Pine Oil	8002-09-3	1 - 5
Sodium sesquicarbonate	533-96-0	1 - 2
Tetrasodium ethylenediamine tetraacetate	64-02-8	1 - 2

Composition Comments Components not listed are either non-hazardous or are below reportable limits.

Section 4 - First-aid Measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most Important symptoms /effects, acute and delayed	Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment	Provide general supportive measures and treat symptomatically. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be give to the possibility that overexposure to materials other than this product may have occurred. Keep victim under observation. Symptoms may be delayed.
General Information	Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

Section 5 - Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Containers may rupture on heating.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment /instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
General fire hazards	Use standard firefighting procedures and consider the hazards of other involved materials.
Specific Methods	Flammable liquid and vapor.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures.	Wear appropriate protective equipment (See section 8). Avoid breathing vapors or mist. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Methods and materials for containment and cleaning up	Recovery: Stop leak if safe to do so. Absorb spills with vermiculite, fuller's earth, or sand. Shovel up and place in a non-metal waste conater for disposal. Dike large spills with soil or sandbags to conatin it and prevent the spread. Keep in suoitable, properly labeled, closed containers for disposal. Decontamination / cleaning: Wash non-recoverable raminder with large amounts of water. Clean contaminated surfaces thoroughly . Recover the cleaning water for subsequent disposal. Dispose of in accordance with local regulations. Spill area may be slippery.
Environmental precautions	Avoid contact of spilled material and runoff with soil and surface waterways.

Section 7 - Handling and storage

Precautions for safe handling	Avoid inhalation of vapor or mist. Use only with adequate ventilation. Do not enter storage areas and confined spaces unless adequately ventilated. Wear appropriate protective equipment including long chemical resistant gloves, chemical splash goggles and protective footwear. Handle in accordance with good industrial hygiene and safety practice. Do not spray towards face. Wash affected areas after use. Do not taste or swallow. Product residue may remain on/in empty containers. All precautions for handing the product must be used in handling the empty container and residue. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Section 8 - Exposure control/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
2-Propanol (CAS 67-63-0)	TWA	980 mg/m ³ , 400ppm	

US. ACGIH Threshold Limit Values

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Component	Type	Value	Form
2-Propanol (CAS 67-63-0)	STEL	400 ppm	
2-Propanol (CAS 67-63-0)	TWA	200 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
2-Propanol (CAS 67-63-0)	IDLH	2000 ppm
2-Propanol (CAS 67-63-0)	STEL	1225 mg/m ³ , 500 ppm
2-Propanol (CAS 67-63-0)	TWA	980 mg/m ³ , 400 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

US. ACGIH. BEIs. Biological Exposure Indices

Components	Value	Determinate	Specimen	Sampling Time
2-Propanol (CAS 67-63-0)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
2-Propanol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

* - For sampling details, please see the source document.

Appropriate engineering controls

Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

Ensure that eyewash stations and safety showers are close to the workstation location, and that emergency equipment is immediately accessible with instructions for use. The protective equipment must be selected in accordance with current local standards and in following proper use instruction from the supplier of the protective equipment. Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear appropriate chemical resistant clothing if use risk exposure.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

Section 9 - Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Clear liquid.
Color	Amber.
Odor	Pine.
Odor threshold	No information available.
pH	9 - 11
Melting point/freezing point	No information available.
Initial boiling point and boiling range	No information available.
Flash point	90 °F (32.2 °C)
Evaporation rate	No information available.
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	No information available.
Flammability limit - upper (%)	No information available.
Explosive limit - lower (%)	No information available.
Explosive limit - upper (%)	No information available.
Vapor pressure	No information available.
Vapor density	No information available.
Relative density	0.99 ± 0.01
Relative density temperature	75 °F (23.9 °C)
Solubilities (water)	Soluble in water.
Partition Coefficient n-octanol/water	Not available

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Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	< 20 cSt
Viscosity Temperature	75 °F (23.9 °C)

Section 10 - Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use and storage.
Chemical stability	Stable and non-reactive under normal conditions of use, storage and transport.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Do not mix with other chemicals. Contact with incompatible materials. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	Strong Acids and Oxidizing Agents, Chlorine. Anionic surfactants/soaps.
Hazardous Decomposition Products	Oxides of carbon and nitrogen.

Section 11 - Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects.

Acute toxicity	May cause an allergic skin reaction.					
Components	Level	Type	Code	Species	Results	
Pine Oil (CAS 8002-09-3)	Acute	Dermal	LD50	Rabbit	>5000 mg/kg	
	Acute	Oral	LD50	Rat	3200 mg/kg	

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/ eye irritation	Causes serious eye damage.
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.

Section 12 - Ecological Information

Ecotoxicity	Pesticides are toxic to aquatic life.
Persistence and degradability	No information available.
Bioaccumulative potential	No bioaccumulation is to be expected.
Partition coefficient n-octanol / water log (Kow)	
Components	Results
2-Propanol (CAS 67-63-0)	0.05
Mobility in soil	No information available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

Section 13 - Disposal considerations

Disposal instructions	PESTICIDE 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. CONTAINER DISPOSAL - Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container promptly after emptying. (For containers 5 gallons or less):
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Triple rinse as follows: Fill container 1/4 full with water and recap. Agitate vigorously. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

(For containers greater than 5 gallons):

Triple rinse as follows: Fill container 1/4 full with water. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure

two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

PACKET DISPOSAL - Do not reuse; discard empty container and put in trash.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 - Transport information

DOT

UN number	UN1987
Proper shipping name	ALCOHOLS SOLUTION, N.O.S. (2-PROPANOL)
Transport hazard class(es)	3
Subsidiary class(es)	-
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Labels required	3
Special provisions	B1, IB3, T4, TP1, TP29
Packaging exemption	150
Packaging non bulk	203
Packaging bulk	242

IATA

UN number	UN1987
UN proper shipping name	ALCOHOLS SOLUTION, N.O.S. (2-PROPANOL)
Transport hazard class(es)	3
Subsidiary class(es)	-
Packaging group	III
Environmental hazards	No
ERG Code	3L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other Information	
Packaging Exceptions	LTD QTY, Y203

IMDG

UN number	UN1987
UN proper shipping name	ALCOHOLS SOLUTION, N.O.S. (2-PROPANOL)
Transport hazard class(es)	3
Subsidiary class(es)	-
Packaging group	III
Environmental hazards Marine pollutant	No
Labels required	3
EmS	F-E, S-D
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code This substance/mixture is not intended to be transported in bulk.

Section 15 - Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)	Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed
CERCLA Hazardous Substance List (40 CFR 302.4)	Not Listed
Superfund Amendments and Reauthorization Act of 1986 (SARA)	

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Hazard Categories	Immediate Hazard	Yes
	Delayed Hazard	No
	Fire Hazard	Yes
	Pressure Hazard	No
	Reactivity Hazard	No
SARA 302 Extremely hazardous substance		Not listed.
SARA 311/312 Hazardous chemical		Yes
SARA 313 (TRI reporting)		Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List		Not listed.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)		Not regulated.
Safe Drinking Water Act (SDWA)	Not regulated.	
Food and Drug Administration (FDA)	Not regulated.	

US state regulations

US.Massachusetts RTK - Substance List	Components 2-Propanol (CAS 67-63-0)
US.New Jersey Worker and Community Right-to-Know Act	Components Pine Oil (CAS 8002-09-3) 2-Propanol (CAS 67-63-0)
US.Pennsylvania RTK - Hazardous Substances	Components 2-Propanol (CAS 67-63-0)
US.Rhode Island RTK	Not regulated.
US - California Proposition 65	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins

International Inventories

Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes
Unites States Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

*A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16 - Other information, including date of preparation or last version

Issue date	9/24/2017
Version #	01
Further information	Some information on this SDS following OSHA Guidelines may not fully align with EPA mandated pesticide label information.
Disclaimer	The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.