

SAFETY DATA SHEET

Section 1 - Identification

Product Identifier	PINE-QUAT Disinfectant Cleaner
Other means of identification	0237
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. For further information refer to the EPA Registered product label. Uses other than those identified are not recommended.
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	Acute toxicity, dermal	4
	Acute toxicity, oral	4
	Serious eye damage/eye irritation	1
	Skin corrosion/irritation	1B
OSHA defined hazards	Not Classified.	
Label Elements		
Hazard Symbol		
Signal Word	Danger	
Hazard Statement	Flammable liquid and vapor. Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage.	
Precautionary statement		
Prevention	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe spray. Avoid breathing fume / mist / vapor / spray. Do not get in eyes, on skin, or on clothing. Wash affected areas thoroughly after handling. Do not eat, drink or smoke with using this product. Wear protective gloves and eye, face and foot 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	Ground/Bond container and receiving equipment. Use explosion proof electrical / ventilating / lighting / equipment. Store in a well ventilated place. Keep container tightly closed. Keep cool. Store locked up.	
Disposal	Dispose of contents and container to an approved waste disposal plant.	
Hazard(s) not otherwise classified (HNO)	None known.	

Section 3 - Composition/Information on ingredients

Mixture			
Hazardous Components	Ingredient Name	CAS #	%
	2-Propanol	67-63-0	5 - 10

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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)		
Dioctyl dimethyl ammonium chloride (5538-94-3)		
Alcohol ethoxylate	68131-39-5	1 - 5
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	Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
Skin contact	Take off contaminated clothing and shoes immediately. Wash affected areas with plenty of water. Seek medical attention if irritation develops or persists.
Eye contact	Rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention if irritation develops or persists.
Ingestion	Do NOT induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Rinse mouth with water. Seek medical attention.
Most Important symptoms / effects, acute and delayed	The most important known symptoms and effects are described in the labeling (section 2.2) and/or in section 11. Corrosive effects. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. Prolonged or repeated skin contact may aggravate existing skin conditions. Inhalation of mists may aggravate existing chronic respiratory conditions such as asthma, emphysema or bronchitis.
Indication of immediate medical attention and special treatment	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.
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	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	No information available.
Specific hazards arising from the chemical	Container may rupture on heating. Carbon oxides.
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	As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear.
General fire hazards	Use standard firefighting procedures and consider the hazards of other involved materials.
Specific Methods	No special methods required. Move containers from area if it can be done without risk. Cool fire-exposed containers with water from side. Contain the extinguishing fluids by diking.

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 container for disposal. Dike large spills with soil or sandbags to contain it and prevent the spread. Keep in suitable, properly labeled, closed containers for disposal. Decontamination / cleaning: Wash non-recoverable remainder 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. Avoid breathing vapors or mists. Use only with adequate ventilation. Product residue may remain on/in empty containers. All precautions for handling 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

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the SDS).

Section 8 - Exposure control/personal protection

Occupational exposure limits

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

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 long chemical resistant gloves. Observe instruction regarding permeability and breakthrough time provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and contact time. Gloves should be discarded and replaced if there is an indication of degradation or chemical breakthrough.

Other Wear footwear protecting against chemical, and impervious clothing. Choose body protection according to the amount and concentration of the substances in the workplace.

Respiratory protection In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Personal hygiene is an important work practice exposure control measure and the following measures should be taken when working with or handling this material:

- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

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)

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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
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	No information available.
Chemical stability	Stable and non-reactive under normal conditions of use, storage and transport.
Possibility of hazardous reactions	No information available.
Conditions to Avoid	Avoid all possible sources of ignition (spark or flame). Do not expose containers to the heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	Anionic surfactants.
Hazardous Decomposition Products	Oxides of carbon and nitrogen.

Section 11 - Toxicological information

Information on likely routes of exposure

Ingestion	Harmful if swallowed. Causes burns/serious damage to mouth, throat and stomach. Symptoms may include vomiting, nausea, and/or feeling of general unwellness.
Inhalation	May cause irritation and corrosive effects to nose, throat and respiratory tract. Symptoms may include coughing and difficulty breathing.
Skin contact	Causes severe skin burns. Symptoms may include burns, blisters, redness and pain (which may be delayed).
Eye contact	Causes eye damage. Symptoms may include pain, burning sensation, redness, watering, blurred vision or loss of vision.

Information on toxicological effects.

Acute toxicity	No information available.					
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 severe skin burns.					
Serious eye damage/ eye irritation	Causes eye damage.					
Respiratory sensitization	Not classified as sensitizing by skin contact.					
Skin sensitization	Not classified as sensitizing by skin contact.					
Germ cell mutagenicity	No information available.					
Carcinogenicity	This product does not contain any ingredient designated as probable or suspected human carcinogens by IARC, ACGIH					
Reproductive toxicity	No information available.					
Specific target organ toxicity - single exposure	No information available.					
Specific target organ toxicity - repeated exposure	No information available.					
Aspiration hazard	No information available.					

Section 12 - Ecological Information

Ecotoxicity	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)	

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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): 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
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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

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Environmental hazards	No
Marine pollutant	
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)		
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	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.	

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	2/23/2018
Version #	02
Further information	Some information on this SDS following OSHA Guidelines may not fully align with EPA mandated pesticide label information.

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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.