


SAFETY DATA SHEET

Section 1 - Identification

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| 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 (HNOC) | 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) | | |
| Diocetyl 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

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| 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

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| 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

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| 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

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| 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

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|-----------------------|---------------|
| 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

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|------------------------------------|--|
| 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

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|---------------------|--|
| 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

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|---|---------------------------------------|
| 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

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|--|--|
| Disposal instructions | <p>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.</p> <p>CONTAINER DISPOSAL - Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container promptly after emptying.</p> <p>(For containers 5 gallons or less):</p> <p>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.</p> <p>(For containers greater than 5 gallons):</p> <p>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.</p> <p>PACKET DISPOSAL - Do not reuse; discard empty container and put in trash.</p> |
| 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

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|-------------------------------------|---|
| 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 |

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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

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|----------------------------|---|
| 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.