NEUTRAL DISINFECTANT CLEANER DEGREASER

**Description**
A hospital grade, neutral type disinfectant cleaner deodorant. This highly fragranced disinfectant cleaner is effective in hard waters up to 400 ppm plus 5% organic serum. An economical dilution of 2 ounces per gallon is required for effective disinfecting of inanimate, non-porous hard surfaces found in schools, animal laboratories, and all health care facilities. This dual quaternary product is also effective against the HIV-1 AIDS virus).

**Features**
- Neutral pH
- Highly fragranced
- Biodegradable, phosphate free formulation
- Cleans, disinfects & deodorizes in one operation
- Kills HIV-1 (AIDS virus)
- Ideal for floor finish maintenance
- Cosmetically appealing even at end use dilution 1:64
- Environmentally responsible
- Multiple activity reduces maintenance time and cost
- Reduces danger of contamination from hard surfaces

**Benefits**
- Neutral pH
- Highly fragranced
- Biodegradable, phosphate free formulation
- Cleans, disinfects & deodorizes in one operation
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- Ideal for floor finish maintenance
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**Specifications**
- **Appearance**: Water thin liquid
- **Odor**: Blue, purf fragrance
- **pH Concentrate**: 7.0 ± 2
- **Active Ingredients**: Dual Quaternary
- **Specific Gravity**: 1.00 ± .2
- **Density**: 8.34 lbs./gal
- **Upper Cloud**: 130º F
- **Lower Cloud**: 33º F
- **Flash Point**: None
- **Phosphates**: None
- **Biodegradable**: Yes

**Directions for Use**
**GENERAL USE DIRECTIONS:** Recommended for use in hospitals, nursing homes, schools, colleges, commercial and industrial institutions, office buildings, veterinary clinics, animal life laboratories, equine farms, tuck shops, pet shops, airports, kennels, hotels, motels, breeding establishments, grooming establishments, and households. Disinfects, cleans, and deodorizes floors, walls, metal surfaces, stainless steel surfaces, glazed porcelain, plastic surfaces (such as polypropylene, polystyrene, etc.), and other hard, non-porous surfaces. APPLICATION: Remove heavy soil deposits from surface. Then thoroughly wet surface with a solution of 2 ounces of concentrate per gallon of water. The solution can be applied with a cloth, mop, sponge, or coarse spray, or soaking. Let solution remain on surface for a minimum of 10 minutes. Rinse and allow to air dry. Rinsing of floors is not necessary unless they are to be waxed or polished. Prepare a fresh solution daily or more often if the solution becomes visibly dirty or diluted.

**MILDEWSTATIC INSTRUCTIONS:** Will effectively control the growth of mold and mildew plus the odors caused by them when applied to hard, non-porous surfaces such as walls, floors, and table tops. Apply solution (2 ounces per gallon of water) with a cloth, mop, sponge, or coarse spray, or soaking. Let solution remain on surface for a minimum of 10 minutes. Rinse and allow to air dry. Rinising of floors is not necessary unless they are to be waxed or polished. Prepare a fresh solution daily or more often if the solution becomes visibly dirty or diluted.

**Kills HIV-1 (AIDS virus)** on pre-cleaned environmental surfaces/ objects previously soiled with blood/body fluids in healthcare settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood/body fluids, and in which the surface/objects likely to be soiled with blood/body fluids can be associated with the potential for transmission of human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS).

**Safety Information**
Registered with the Environmental Protection Agency
Authorized by the USDA
OSHA Material Safety Data Sheet available upon request.
Keep Out of Reach of Children
CAUTION
PRECAUTIONARY STATEMENTS: Hazards to Humans and Domestic Animals.
Causes Eye Irritation.
Avoid Contact with Eyes.
Wash Thoroughly After Handling.

SOLD EXCLUSIVELY BY:
Leonard Paper Company
725 N. Haven St., Baltimore, MD 21205
410-563-0800 • 800-327-5547 • Fax: 410-563-0249
www.leonardpaper.com
SAFETY DATA SHEET
Conforms to OSHA HazCom 2012 Standard

Section 1 - Identification
Product Identifier  NEUTRA QUAT Neutral Disinfectant Cleaner Deodorant
Recommended use  Neutral Disinfectant Cleaner Deodorizer
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  Leonard Paper Company
Address  725 North Haven Street, Baltimore, MD 21205-2986
Telephone  443-278-8264
Supplier Email  info@leonardpaper.com
Contact  Christy
Emergency Phone  1 (800) 327-5547

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.

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Hazards</td>
<td>Not Classified</td>
</tr>
<tr>
<td>Health Hazards</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, oral</td>
<td>4</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>1</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>2</td>
</tr>
<tr>
<td>Environmental Hazards</td>
<td>Hazardous to the aquatic environment, acute hazard.</td>
</tr>
<tr>
<td>OSHA defined hazards</td>
<td>Not Classified.</td>
</tr>
</tbody>
</table>

Label Elements
Hazard Symbol

Signal Word  Danger
Hazard statement  Causes skin irritation. Causes serious eye damage. Harmful if swallowed. Toxic to aquatic life.

Precautionary statement
Prevention  Wash thoroughly after handling. Wear protective gloves. Wear eye/face protection.
Response  If on skin: Wash with plenty of soap and water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage  Store away from incompatible materials.
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

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkyl dimethyl benzyl ammonium chloride (C12-16)</td>
<td>68424-85-1</td>
<td>1 - 3</td>
</tr>
<tr>
<td>Didecyl dimethyl ammonium chloride</td>
<td>7173-51-5</td>
<td>1 - 3</td>
</tr>
</tbody>
</table>

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

Section 4 - First-aid Measures
Inhalation  Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact  Remove contaminated clothing. Wash with plenty of soap and water. Get medical..
## SAFETY DATA SHEET

Conforms to OSHA HazCom 2012 Standard

<table>
<thead>
<tr>
<th>Section 5 - Fire-fighting measures</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable extinguishing media</td>
<td>Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).</td>
</tr>
<tr>
<td>Unsuitable extinguishing media</td>
<td>Do not use water jet as an extinguisher, as this will spread the fire.</td>
</tr>
<tr>
<td>Specific hazards arising from the chemical</td>
<td>During fire, gases hazardous to health may be formed.</td>
</tr>
<tr>
<td>Special protective equipment and precautions for firefighters</td>
<td>Self-contained breathing apparatus and full protective clothing must be worn in case of fire.</td>
</tr>
<tr>
<td>Fire-fighting equipment/instruction</td>
<td>Move containers from fire area if you can do so without risk.</td>
</tr>
<tr>
<td>General fire hazards</td>
<td>No unusual fire or explosion hazards noted.</td>
</tr>
<tr>
<td>Specific Methods</td>
<td>Use standard fire fighting procedures and consider the hazards of other involved materials.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 6 - Accidental release measures</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal precautions, protective equipment and emergency procedures</td>
<td>Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.</td>
</tr>
<tr>
<td>Methods and materials for containment and cleaning up</td>
<td>This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</td>
</tr>
<tr>
<td>Environmental precautions</td>
<td>Avoid discharge into drains, water courses or onto the ground.</td>
</tr>
</tbody>
</table>

### Section 7 - Handling and storage

| Precautions for safe handling | Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage. |
| Conditions for safe storage, including any incompatibilities | Store in original tightly closed container. Store away from foodstuffs. 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). |
| Biological limit values      | No biological exposure limits noted for the ingredient(s). |
| Appropriate engineering controls | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been |
SAFETY DATA SHEET
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General hygiene considerations
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.

Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

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.

Other
Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
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.

Section 9 - Physical and chemical properties

Appearance

Physical state
Liquid.

Form
Clear, thin liquid.

Color
Blue.

Odor
Floral.

Odor threshold
Not available.

pH
7.4

Melting point/freezing point
Not available.

Initial boiling point and boiling range
212 °F (100 °C)

Flash point
None to boiling.

Evaporation rate
Not available.

Flammability (solid, gas)
Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)
Not available.

Flammability limit - upper (%)
Not available.

Explosive limit - lower (%)
Not available.

Explosive limit - upper (%)
Not available.

Vapor pressure
Similar to water.

Vapor density
Not available.

Relative density
1.00 ± 0.01

Relative density temperature
75 °F (23.89 °C)

Solubilities
Completely soluble.

Partition Coefficient n-octanol/water
Not available

Auto-ignition temperature
Not Available

Decomposition temperature
Not Available

Viscosity
< 10 cSt

Viscosity Temperature
75 °F (23.89 °C)

Section 10 - Stability and reactivity

Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability
Material is stable under normal conditions.

Possibility of hazardous reaction
No dangerous reaction known under conditions of normal use.

Conditions to Avoid
Contact with incompatible materials.

Incompatible materials
Strong oxidizing agents. Anionic surfactants.

Hazardous Decomposition Products
No hazardous decomposition products are known.

Section 11 - Toxicological Information

Information on likely routes of exposure

Ingestion
Harmful if swallowed.
Conforms to OSHA HazCom 2012 Standard

Inhalation
May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact
Causes skin irritation.

Eye contact
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.

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects.

Acute toxicity
Harmful if swallowed.

Components

<table>
<thead>
<tr>
<th>Level</th>
<th>Type</th>
<th>Code</th>
<th>Species</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute</td>
<td>Dermal</td>
<td>LD50</td>
<td>Rat</td>
<td>3560 mg/kg</td>
</tr>
<tr>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Rat</td>
<td>430 mg/kg</td>
</tr>
<tr>
<td>Acute</td>
<td>Dermal</td>
<td>LD50</td>
<td>Rabbit (Male / Female)</td>
<td>3140 / 2730 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/ eye irritation
Causes serious eye damage.

Respiratory sensitization
Not a respiratory sensitizer.

Skin sensitization
This product is not expected to cause skin sensitization.

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.

Ecotoxicity
The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Components
Didecyl dimethyl ammonium chloride, 7173-51-5

Aquatic

<table>
<thead>
<tr>
<th>Level</th>
<th>Species</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50</td>
<td>Daphnia</td>
<td>0.057 mg/l, 48 h</td>
</tr>
<tr>
<td>NOEC</td>
<td>Daphnia</td>
<td>0.021 mg/l, 21 d</td>
</tr>
<tr>
<td>LC50</td>
<td>Bluegill (Lepomis macrochirus)</td>
<td>0.032 mg/l, 96 h</td>
</tr>
<tr>
<td>LC50</td>
<td>Danio rerio</td>
<td>0.97 mg/l, 96 h</td>
</tr>
</tbody>
</table>

Aquatic

<table>
<thead>
<tr>
<th>Level</th>
<th>Species</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOEL</td>
<td>Daphnia</td>
<td>0.0042 mg/l</td>
</tr>
<tr>
<td>EC50</td>
<td>Oncorhynchus mykiss (rainbow trout)</td>
<td>&gt;0.022 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

Remarks: No toxicity at the limit of solubility.

Fish

<table>
<thead>
<tr>
<th>Level</th>
<th>Species</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50</td>
<td>Bluegill (Lepomis macrochirus)</td>
<td>0.515 mg/l</td>
</tr>
</tbody>
</table>

Persistence and degradability
No data is available on the degradability of this product.

Mobility in soil
No data 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
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

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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 U.S. EPA registered pesticide.

This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

<table>
<thead>
<tr>
<th>Hazard Categories</th>
<th>Hazard</th>
<th>Delayed Hazard</th>
<th>Fire Hazard</th>
<th>Pressure Hazard</th>
<th>Reactivity Hazard</th>
<th>SARA 302 Extremely hazardous substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediate Hazard</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Not listed.</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
Conforms to OSHA HazCom 2012 Standard

SARA 311/312 Hazardous chemical
SARA 313 (TRI reporting)

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Safe Drinking Water Act (SDWA)
Food and Drug Administration (FDA)

US state regulations
US.Massachusetts RTK - Substance List
US.New Jersey Worker and Community Right-to-Know Act
US.Pennsylvania RTK - Hazardous Substances
US.Rhode Island RTK
US - California Proposition 65

International Inventories

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

*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: 1/12/2016
Version #: 01

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.