

## MATERIAL SAFETY DATA SHEET

**NFPA RATING:** Health = 3 Flammability = 0 Reactivity = 0  
**HMIS RATING:** Health = /,3 Flammability = 1 Reactivity = 0

## SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (543N-14A)

**Distributor:** Rose Products & Services Inc.**Product Name:** NEUCIDE PLUS #6**Address:** 545 Stimmel Road  
Columbus, OH 43223**Date Prepared:** March 6, 2008**Prepared by:** Regulatory Affairs Department**Emergency Telephone No.:** (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.) **Other information calls:** (816) 233-1321 (Ext. 8285).

## SECTION II -- INGREDIENTS/IDENTITY INFORMATION

**Components**

| (Specific Chemical Identity:<br>Common Name(s))               | CAS#       | OSHA PEL | ACGIH TLV | OTHER LIMITS<br>RECOMMENDED | %   |
|---|------------|----------|-----------|-----------------------------|-----|
| Alkyl dimethyl benzyl ammonium chloride (C <sub>12-16</sub> ) | 68424-85-1 | None     | None      | N/A                         | 1   |
| Di-(C <sub>8-10</sub> )-alkyl dimethyl ammonium chloride      | 85424-95-3 | None     | None      | Not applicable              | 0.8 |
| Diocetyldimethylammonium chloride                             | 5538-94-3  | none     | none      | N/A                         | 0.4 |
| Didecyl dimethyl ammonium chloride                            | 7132-51-5  | none     | none      | N/A                         | 0.4 |
| Water   | 7732-18-5  | none     | none      | N/A                         | --- |

VOC (Concentrate) = 0.6%; VOC (Min. dilution) = 0.02%

## SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

|                                 |          |   |                                      |
|---------------------------------|----------|---|--------------------------------------|
| <b>Boiling Point:</b>           | 208°F    | <b>Specific Gravity (H<sub>2</sub>O = 1):</b> | 25°C = 1.00; 39°F = 1.00             |
| <b>Vapor Pressure (mm Hg.):</b> | 17.7     | <b>Percent Volatile by Volume (%):</b>        | 87.2                                 |
| <b>Vapor Density (AIR = 1):</b> | 0.6      | <b>Evaporation Rate (ethyl ether = 1):</b>    | <1                                   |
| <b>Solubility in Water :</b>    | Complete | <b>Appearance and Odor:</b>                   | Clear, purple liquid, potpourri odor |
| <b>pH Value (average):</b>      | 6.41     |   |                                      |

## SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

**Flash point:** > 201°F (PMCC)**Flammable Limits:** LEL = N/A

UEL = N/A

**Extinguishing Media:** Dry chemical, foam, carbon dioxide, water fog.**Special Fire Fighting Procedures:** Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.**Unusual Fire and Explosion Hazards:** None known to manufacturer.

## SECTION V -- PHYSICAL HAZARDS

**Stability:** Stable under normal conditions**Conditions to Avoid:** Avoid strong oxidizers**Incompatibility (Materials to Avoid):** This product is incompatible with anionic compounds, strong oxidizing agents.**Hazardous Decomposition Products or Byproducts:** Upon decomposition, this product may yield oxides of nitrogen and ammonia.**Hazardous Polymerization:** Will not occur **Conditions to Avoid:** None known

## SECTION VI -- HEALTH HAZARD DATA

**Routes of entry:** Inhalation? Yes Skin? Yes Ingestion? Yes

## HEALTH HAZARDS (1. Acute and 2. Chronic)

1. May be corrosive to the eyes. May cause moderate to severe skin irritation. May be harmful if swallowed. 2. None known to manufacturer.

**Chemical listed as Carcinogen or Potential Carcinogen:****National Toxicology Program =** No**I.A.R.C. Monographs =** No**OSHA =** No

Not listed as carcinogenic according to IARC, NTP or OSHA.

**Signs and Symptoms of Exposure:****Eyes:** This product may be corrosive to the eyes. **Skin:** this product may cause irritation to the skin. This product may be harmful if it is absorbed through the skin. **Inhalation:** Exposure via inhalation not likely. High vapor or aerosol mist concentrations may be irritating to the nose, throat and upper respiratory tract. **Ingestion:** This product may be harmful if swallowed. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, diarrhea.**Medical Conditions Generally Aggravated by Exposure:** No effects indicated.**Emergency and First Aid Procedures:****Eyes:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. Get medical attention or advice.**Skin or Clothing:** Immediately take off all contaminated clothing. Wash contaminated clothing before reuse. Immediately flush with water. Get medical attention. **Inhalation:** If inhaled, immediately remove the affected person to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult give oxygen. Seek medical attention.

#### Health Hazards (Continued):

**Ingestion:** If the material is swallowed, get immediate medical attention or advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not induce vomiting. **Note to Physician:** If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

#### SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps To Be Taken In Case Material Is Released Or Spilled:** Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Wear appropriate personal protective equipment during cleanup.

**Waste Disposal Method:** Small Spills: absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Large Spills: dike ahead of liquid spill for later disposal. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Surfaces may become slippery after spillage.

**Container Disposal:** Do not reuse empty container. Triple rinse empty container with water. Return metal drum then offer for reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers may be disposed of in a sanitary landfill, incinerated, or if allowed by local authorities, by burning. If burned, stay out of smoke. Offer for recycling if available. For containers 1 gallon or less: do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

**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.

**Precautions To Be Taken In Handling And Storing:** Avoid contact with skin and eyes. Avoid breathing vapors or mists of this product. Wash hands before eating, drinking, smoking or using toilet facilities. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE: Store in a dry place no lower in temperature than 50°F or higher than 120°F. Avoid freezing or excessive heat. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning & Community Right to Know Act of 1986 and 40 CFR Part 372.

#### SECTION VIII -- CONTROL MEASURES

**Respiratory Protection (Specify Type):** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. If vapors are present or irritation is experienced, NIOSH approved respiratory protection for ammoniacal vapors should be worn.

**Ventilation:** Use with adequate ventilation.

**Local Exhaust =** Recommended    **Mechanical (General) =** Recommended    **Special =** None known    **Other =** None known

**Protective Gloves:** Wear suitable protective clothing. Use impervious gloves.

**Eye Protection:** Wear chemical goggles and face shield.

**Other Protective Clothing or Equipment:** Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. Eye wash fountain and emergency showers are recommended.

#### SECTION IX - TRANSPORTATION INFORMATION

**Applicable regulations:** DOT = no; IMCO = no; IATA = no

**Proper shipping name:** Disinfectant, Liquid

**UN No.:** not applicable

**Limited Qty.:** not applicable

**Hazard Class:** not applicable

**Labels required:** Not applicable

**DOT Exception:** not applicable

**EPA Hazardous waste/number code:** not listed

**Hazardous waste characteristics:**

**Ignitability =** not applicable; **Corrosivity =** not applicable; **Reactivity =** not applicable

#### DISCLAIMER OF WARRANTIES

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.

The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.

THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.