1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMMON NAME: ROCCAL-D® Plus
MOLECULAR FORMULA: Mixture
USE: Disinfectant.
MANUFACTURER/SUPPLIER:
PHARMACIA & UPJOHN CO., A SUBSIDIARY OF PHARMACIA CORP.
7171 PORTAGE RD
KALAMAZOO, MI 49001-0199
TELEPHONE NUMBERS:
(616) 833-5122 - (24 Hours)
(616) 833-7555 - (8:00 AM – 4:30 PM, EST)

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT 1
COMMON NAME: Alkyl dimethyl benzyl ammonium chlorides
% BY WEIGHT: 13.8 %
CAS NUMBER: 68424-85-1
EXPOSURE LIMIT(S): Not established.

INGREDIENT 2
COMMON NAME: Didecyl dimethyl ammonium chloride
% BY WEIGHT: 9.2 %
CAS NUMBER: 7173-51-5
EXPOSURE LIMIT(S): Not established.

INGREDIENT 3
COMMON NAME: Tributyltin oxide
% BY WEIGHT: 1 %
CAS NUMBER: 56-35-9
EXPOSURE LIMIT(S): ACGIH TLV-TWA: 0.1 mg/m^3
SKIN NOTATION: Yes

EXPOSURE LIMIT(S) FOR THE MATERIAL: Not established.

3. HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF EXPOSURE: Skin contact, eye contact, ingestion and inhalation.
EFFECTS OF OVEREXPOSURE: Causes severe eye irritation following acute exposure. Chronic exposure can cause corneal damage. Skin contact can cause irritation and defatting. Ingestion may cause damage to throat and esophagus and is moderately toxic.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not established.

4. FIRST AID MEASURES

EYES: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation persists.
SKIN: Wash off with soap and water. Take off all contaminated clothing immediately.
INHALATION: Move to fresh air.
INGESTION: Harmful if swallowed. Drink large quantities of gelatin, egg white or water. Contact physician immediately.

5. FIRE FIGHTING MEASURES

FLASH POINT (TAG CLOSED CUP TESTER): 61º C (142º F)
LOWER EXPLOSION LIMIT (LEL): Not applicable.
UPPER EXPLOSION LIMIT (UEL): Not applicable.
EXTINGUISHING MEDIA: Water, carbon dioxide, or dry chemical.
FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus and full-body protective equipment.
UNUSUAL FIRE OR EXPLOSION HAZARDS: Combustible liquid.
HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide. Carbon dioxide. Nitrogen oxides. Hydrogen chloride.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills may be flushed into sewer with large amounts of water. Absorb large spills onto inert material and place in plastic or plastic-lined containers for proper disposal.

7. HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING AND STORING: Keep out of reach of children. Do not get in eyes, on skin or on clothing. Avoid contamination of food. Avoid breathing spray mist. Store in original container.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

RESPIRATORY PROTECTION: Respirator not required when product is used as directed. Use approved respirator if there is opportunity for inhalation of mists or aerosols, especially with large quantities.
VENTILATION: Local exhaust.

PROTECTIVE GLOVES: Rubber gloves are recommended when handling the concentrate. It is recommended that persons with previously existing skin conditions or sensitive skin also wear gloves when handling dilute solutions.
EYE PROTECTION: Safety goggles or face shield when handling the concentrate. Safety glasses with side shields are recommended when handling dilute solutions as a matter of good industrial hygiene practice.
OTHER PROTECTIVE EQUIPMENT: Protective covering for exposed areas of skin.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Dark green liquid.
BOILING POINT: > 100º C (212º F)
EVAPORATION RATE: 1 (water =1)
MELTING POINT: Not applicable.
ODOR: Pleasant fragrance.
SOLUBILITY IN WATER: Complete.
SPECIFIC GRAVITY (WATER=1): 1.015.
VAPOR DENSITY (AIR=1): Not applicable.
VAPOR PRESSURE: Not applicable.
VOLATILITY: 64 %

10. STABILITY AND REACTIVITY

STABILITY: Stable.
PHYSICAL CONDITIONS TO AVOID: Not established.
INCOMPATIBILITY WITH OTHER MATERIALS: Soaps, anionic detergents.
HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia.
HAZARDOUS POLYMERIZATION: Does not occur.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY: Ingredient(s) are not listed as carcinogenic by IARC, NTP or OSHA.

12. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with applicable international, national, state, and/or local waste disposal regulations.

13. SHIPPING REGULATIONS

Not regulated for transportation by the United States Department of Transportation (DOT), International Maritime Organization (IMO), or International Air Transport Association (IATA). May be subject to state and/or local transportation requirements.

14. OTHER INFORMATION

REVIEWED BY: Environment & Safety
DISCLAIMER: The information contained in the MSDS is believed to be correct as of its date of issuance. BY MAKING THE MSDS AVAILABLE, PHARMACIA & UPJOHN CO. DOES NOT MAKE ANY EXPRESS OR IMPLIED WARRANTY (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) REGARDING THE MSDS, ITS ACCURACY OR THE PRODUCT TO WHICH IT RELATES. Anyone using this information agrees that Pharmacia & Upjohn shall not be held liable (based on its negligence or otherwise) for any personal injury or other damage relating to, or arising from such use, including direct, incidental, or consequential damage and such user agrees to indemnify Pharmacia & Upjohn for any claims arising out of its use.

16. LABELING

This drug is subject to EPA labeling requirements; therefore, it is exempt from the labeling requirements of the OSHA Hazard Communication Standard.

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NDC 0009-7308-02
NDC 0009-7308-05

MSDS CCS: 7308-07

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