# Cleaning And Disinfecting

Work

**Time** 

Cost

#### Methods

#### Dry

- -Brush or blow down walls
- -Fans on full speed

#### Methods

#### Wet

- -Foam on soap
- -Rinse
- Let building dry

# CLEANING IS ESSENTIAL TO DISINFECTION

- The success of disinfectant sterilant efficacy is based on thorough cleaning
- 85-90% of microorganisms are removed in the pre-cleaning process
- The goal is microbial control/reduction

## CFU REDUCTIONS AT NORTH CAROLINA STATE UNIVERSITY

| HOUSE STATUS        | CFU/ sq inch | % reduction |
|---------------------|--------------|-------------|
| dirty               | 3,000,000    |             |
| blown down (air)    | 2,900,000    | 3.4         |
| air out             | 2,000,000    | 31          |
| washed w. water     | 500,000      | 75          |
| washed w. detergent | 100,000      | 80          |
| disinfected         | < 1,000      | > 99        |

# All the Disinfectants in the world, including Formaldehyde, will not cover up the sin of improper cleaning!

### How can we measure Cleanliness?

#### How can we measure cleanliness?

Break it down into 2 parts -

Visibly Clean: a supervisor/manager must check constantly and have unsatisfactory results corrected INSPECT WHAT YOU EXPECT!

Microbiologically Clean: monitor (direct contact swabs and air plates) to measure, maintain, and improve hygiene

#### An Alternative Method

Bioluminescence Testing measures the presence of ATP. A higher ATP level indicates an unclean surface with organic matter present.

This testing method gives <u>instant</u> results.

#### ATP Testing Results in a Hatchery

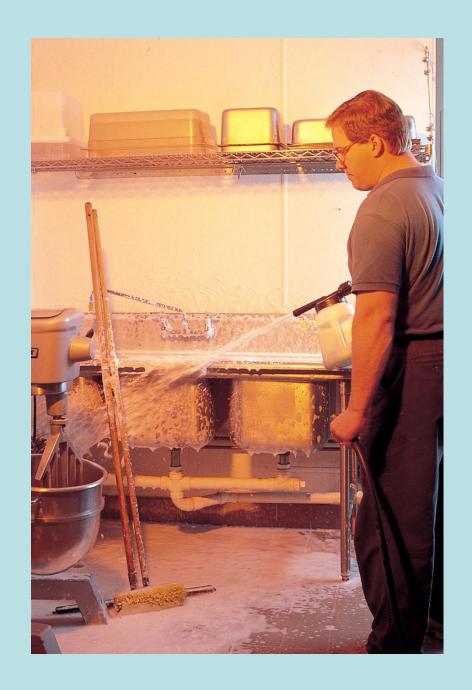
| Hatcher Wall            | Hatcher A | Hatcher B | Hatcher C |
|-------------------------|-----------|-----------|-----------|
| No cleaning-just pulled | 1285      | 3878      | 10820     |
| Rinsed only             | 337       | 516       | 800       |
| Foamed & Rinsed         | 29        | 36        | 28        |

| Foamed & Hand Scrubbed * | Hatcher D | Hatcher E |
|--------------------------|-----------|-----------|
| and Rinsed               | 17        | 12        |

<sup>\*</sup>ELBOW GREASE

A score **below 50** is considered clean in food processing plants where ATP testing is widely and routinely used.





#### HANDY FOAMER









Quote from: INTERNATIONAL HATCHERY PRACTISE:

"Too much emphasis is placed on disinfectants and sanitizers and not enough on the overall approach to hygiene.

The significance and importance of preparation and cleaning are often underestimated."

#### Some Facts and Definitions

About

DISINFECTANTS

And

The Correct Use

Of

Disinfectants

#### DISINFECTANT

#### **Definition:**

DISINFECTANT – A CHEMICAL AGENT THAT KILLS MICROORGANISMS EXCEPT FOR RESISTANT BACTERIAL SPORES

- •PROPER RESULTS IN 100% KILL OF LARGE BACTERIA, TARGET VIRUSES AND TARGET FUNGI
- •MAY (Should Always) OR MAY NOT REQUIRE PRECLEANING

#### Why do we use DISINFECTANTS?

Because,

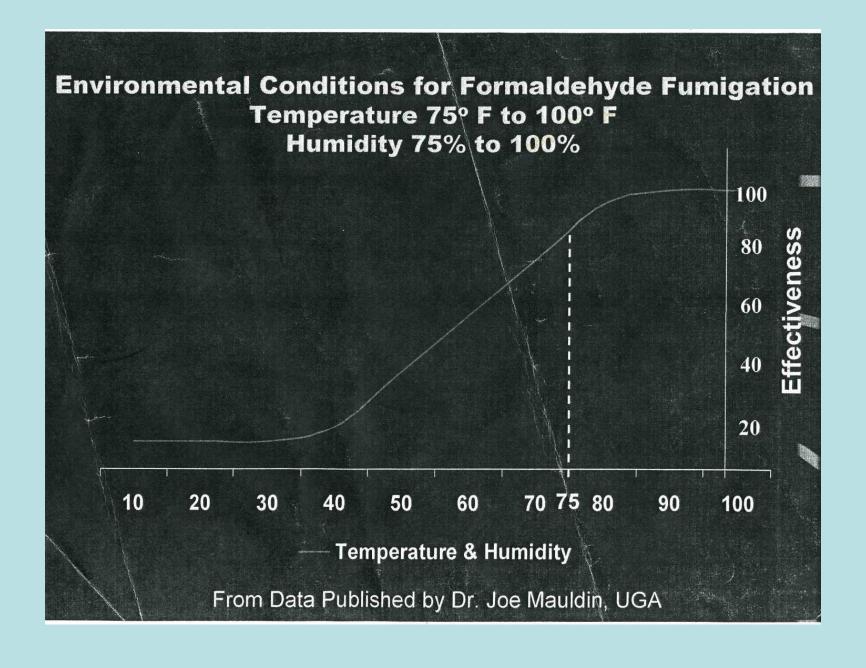
Under optimal conditions (hatchery), a bacteria can divide every 20 minutes

In 24 hours(72 divisions), one bacteria can theoretically become

4,700,000,000,000,000,000,000,000 cells

#### The Wrong Disinfectant May Not Work as Planned





#### DISINFECTANT PROPERTIES

- Germicidal Activity
- Corrosive
- Worker Safety
- Volatility (Residual Properties)
- Environmental Issues
- Foam
- Application
- Cleaner Compatibility
- Suitable for Use

#### DISINFECTANT SELECTION CRITERIA

- EPA Registered documentation
- Broad Spectrum Activity bacteria, viruses, fungi
- Speed of action
- Surface compatibility
- Quality and stability of manufacturer
- Application
- Personnel, safety in handling
- Environmental biodegradability

## Formaldahyde has been classified as a human carcinogen by WHO Int'l agency for research on cancer

Gluteraldahyde not

### CHEMICAL DISINFECTANT TYPES Based on Active Ingredient(s)

- Phenolics
- Quats
- lodine
- Chlorine dioxide
- Hydrogen peroxide
- Peracetic acid
- Hydrogen peroxide/Peracetic acid combo
- Glutaraldehyde
- Formaldehyde
- Quat/Glutaraldehyde combo
- Alcohol
- Sodium hypochlorite

#### **Phenols**

- Tek Trol
- Pheno Tek
- Bio Phene
- Environ One Stroke

#### Quats

- Quatamone
- Bio Quat 20
- Quatcide
- 904

#### Quat/Glutaraldehyde

Virocid

Synergize

#### **Chlorine Dioxide**

- Oxine 2%
- Pro Oxine 5%
- Anthium Dioxide

#### Hydrogen Peroxide/Peracetic Acid

Cid 2000

Kickstart

#### Glutaraldehyde

Aldacide

Glutex

### THE IMPORTANCE OF INERT INGREDIENTS within a DISINFECTANT

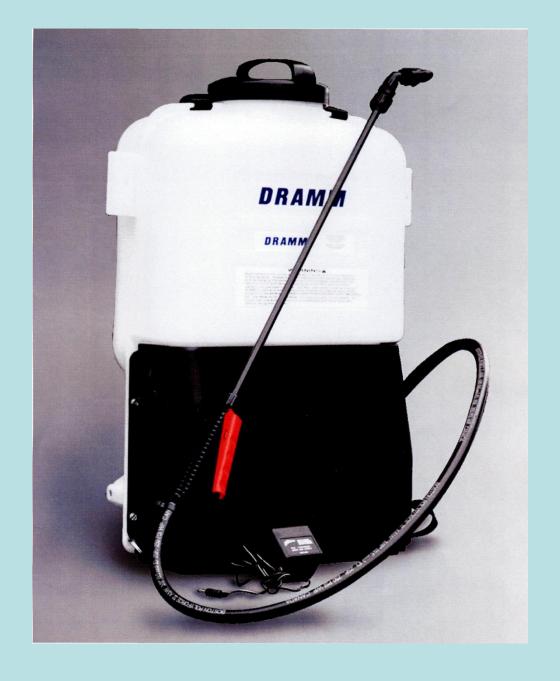
The proper combination of "inerts" (not actives) can greatly enhance the germicidal activity of a disinfectant.

#### For example:

Iodine needs a certain % of acid (12-14%) to keep the pH low for the iodine to remain active.

Phenol compounds are not water soluble so they must be saponified with a high grade soap within the formulation to make it usable. Quats need surfactants and chelating agents in the formula to synergestically improve the microbial activity, especially against gram negatives such as Pseudomonas aeruginosa.

Hydrogen peroxide and Peracetic acid must be stabilized properly so that the hydroxyl radical is actively available.











# WATER LINES





Use disinfectants with precaution.

Before any use read the label and the information concerning the product.







100.000%

# **VIROCID®**



## CONCENTRATED BROAD SPECTRUM DISINFECTANT

# KEEP OUT OF REACH OF CHILDREN DANGER

### Active ingredients:

ALKYL\* DIMETHYL BENZYL AMMONIUM CHLORIDE

\*(50% C14;40% C12;10% C16) 17.060 % (by wt)
DIDECYL DIMETHYL AMMONIUM CHLORIDE 7.800 %
GLUTARALDEHYDE 10.725 %
Inert Ingredients 64.415 %

### PRECAUTIONARY STATEMENTS:

Hazerds to Humans and Domestic Animals. DAMGER, CORROSIVE.

Couses inversible eye damage and skin burns. May be fatal if absorbed through the skin. Do not get in eyes, anskin, or an abstring. Wear protective eyewear, protective dothing, and inboar gloves. Harmful Finiciael. Avoid breathing vispor. Harmful if swallowed. Protonged or bequently reproted skin custod may assert allings reaction in some individuals. With thoroughly with scop and water after bandling and before eating, drinking, drewing gen, or using tolocco. Remove custominated dothing and wash before ruse.

### **ENVIRONMENTAL HAZARDS:**

This pesticide is tack to fish. Do not discharge efficient containing this product into lakes, streams, pends, estuaries, occans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (MPDES) parmit and the permitting authority has been notified in writing prior to discharge.

Do not discharge efficient containing this product to sever systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EFA.

EPA Rog. No.: 71355-1 EPA Est. No.: 150-MN-1 BATCH No.: see top / bottom EXPIRY DATE: see top / bottom Net contents: 1.3 GAL [5 liters]

UN 1760 CORROSIVE UQUID, N.O.S. (Alkyl dimethylbenzyl ammonium chloride, Glutaraldehyde), 8,111

| FIRST AID STATEMENTS or with you when calling the poison control center, doctor, or going for medical treatment.   |  |  |  |  |
|--|--|--|--|--|
| Hold eyelids open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a paison control center or doctor for treatment advice.                                   |  |  |  |  |
| Take off contaminated clothing.  Finse skin immediately with plenty of water for 15-20 minutes.  Call a poison control center or doctor for treatment advice.  |  |  |  |  |
| -Call a paison control center or doctor immediately for treatment adviceHave person sip a glass of water if able to swallowDo not induce vamiting unless told to do so by the poison control center or doctorDo not give anything by mouth to an unconscious person. |  |  |  |  |
| Move person to fresh cir.  If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-<br>to-mouth, if possible.  Call a poison control center or doctor for further treatment advice.                                 |  |  |  |  |
|  |  |  |  |  |

### NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric layage.

### VIROCID® is effective against:

| Bacteria   | Dilution     | Virus (on environmental surfaces) :   | Dilution |  |
|--|--------------|---|----------|--|
| Salmonella cholemosets (ATCC 10708)*   | 1:400        | Porcine circovirus, type II (PCV, PT-1 cell)*                               | 1:200    |  |
| Stephylococcus curous (ATCC 6538)*   | 1:400        | Infectious Bersal Disease of Chickens (SPAFAS Strain 2512)*                 | 1:400    |  |
| Pseedomonas aereginosa (AFCC 15442)*   | 1:400        | Newcastle Disease Virus (Spalas Strain)*                                    | 1:400    |  |
| Streptococcus suis (ATCC 43765)*   | 1:400        | Ariza lafluoaza (Tarkey/Wis/66 straia - H9N2)*                              | 1:400    |  |
| Eschartchie coli (ATCC 11229)*   | 1:400        | Ariza Roovines (Spafas strais)*   | 1:256    |  |
| Mycophisen kyopnessosine (ATCC 25934)***   | 1:400        | Psoudorables Virus (American Bio Research strain)*                          | 1:400    |  |
| Salmonella choleraesets subsp. Choleraesets, serotypo<br>typhisets (ATCC 8321)*                    | 1:400        | Marok's Disease Virus (Spetas strate)*                                      | 1:400    |  |
| Fungus (on environmental surfaces) :   |              | Ariza lafectious Laryngotrachottis (Charles River<br>laboratories)*         | 1:400    |  |
| Tricophyton montagrophytes (ATCC 9533)*  | 1:400        | Porcine Respiratory and Reproductive Syndrome Virus (Arko<br>Laboratorius)* | 1:400    |  |
| Algoe and sline forming bacteria in recirculating water cooling systems and evaporative condensors | 25-50<br>ppm |   |          |  |

"in the presence of 400 ppm ACAC synthetic hardwater and 5% soil load / \*\*\* in the presence of 400 ppm ACAC synthetic hardwater and 25% soil load

### Produced for:

CID LINES nv/sa Waterpoortstraat 2 - 8900 leper Belgium - Europe Tel 011 32 57 217877 Fax 011 32 57 217879

e-mail: info@cidlines.com



Internet: www.cidlines.com www.virocid.com

#### APPLICATION:

Distafaction of non-food surfaces, form, animal, and poultry housing facilities and equipment:

- Form Equipment and unland horsing buildings (positing & turkey grow-out horses, keying houses, swine
  production and housing, barns and large animal buildings)
- 2. Hatchers, Setters, and chick processing facilities
- 3. Food processing plants (sloughterhouses)
- 4. Trucks and other vehicles
- 5. Veterlaary hospitals.

Scritting hatchiny rooms, incubators and hetchers, poultry houses and livestock buildings by fogging. Control of algoe and sinns forming bacteria in recirculating water cooling water systems and evaporative coolings.

### **DIRECTIONS FOR USE:**

It is a violation of federal law to use this product in a manner inconsistent with its labelling.

Disinfection of non-food surfaces,

### form, animal, and poultry housing facilities and equipment :

 Form equipment and animal borsing brildings (poultry & turkey grow-out houses, laying houses, swine production and housing, home and large animal buildings):

For distriction of hard, non-porous surfaces: stainless, galvanized and painted steel, copper, aleminum, finished wood, virryl, plastics, glazed tilles, sealed brick walls, aluminum sandwith panels and feeding/drinking equipment:

- A. Remove all animals and feed from primities, vehicles and enclosures. Remove all litter and mature from floors, walls and surfaces of barns, peers, stalls, duties, and other facilities and fictures occupied or hoversed by animals. Empty all troughs, rocks, and other feeding and watering appliances.
- Thoroughly clean all surfaces with soap or detergent and risse with water. Schurcte all surfaces with
  the appropriate distribution solution\* by using a coarse spray, map, or sprage. Surfaces must remain
  west for 10 minutes.
- Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment
  has been absorbed or dited.
- Thoroughly screb treated feed racks, troughs, and other feeding and water applicances with soap or detergent and rinse with particle water before reuse.
- E. Distriction of equipment: Immerse all habers, ropes, and other types of restraining equipment used in handling and estraining animals, as well as forks, showels, and scape as used for removing litter and manural in the appropriate distriction solution\* for 10 minutes. Allow to air dry.
- F. Fresh distafection solution should be made daily or if visibly solled.
- 2. Hatcheries: Remove all animals from the area. Thoroughly alexa all surfaces thatchers, setters, trays, rocks, certs, sexing tables, click bases, ages) with soap or detergent, then times with water. Saturate all surfaces with the appropriate distriction solution\* by using a coarse spray, map, or spanje. Surfaces must remain weit for 10 minutes. Do not house animals or employ equipment until surfaces have been absorbed or dried first distriction solution should be made daily or if visibly soiled.
- 3. Food processing plants (including Chicken Processing Facilities). Before using this product, all food products and pockaging materials must be removed from the room or carefully protected. Thoroughly clean all surfaces with scap or detergent, then since with water. District hard, non-parass surfaces by applying the appropriate distriction solution\* with a coarse spray, map, or spange. All surfaces must remain thoroughly west for 10 minutes. Allow to air day. A potable water these is required for all surfaces that come into contact with food.
- 4. Trucks and other vehicles: Clean all vehicles including mats, cases, cats, and wheels with high pressure water. Use the appropriate distribution solution\* to treat all vehicles. Leave all headed surfaces exposed to distribution solution wet for 10 minutes. Now to air dry.
- 5. Veterinary hospitals: For disinfection of the following hard man-parces surfaces: floors, walls, ceitings, countries, cages, feeding, Attribute and previous the defending provided in the printises. Thoroughly deen all surfaces with soap or detargent, then three with which safeties surfaces with the appropriate disinfection solution? by using a coase spray, map, or spange. Surfaces must remain well for 10 minutes. Intrinsis all leasthes, matziles, topes or other types of equipment used to restrain or handle crimals as well as showels, scrapes, and forks used to remove minutes and little. Do not house therefore countries and the surface show the national or disted. Thoroughly south the tred feeding and watering equipment with scap or detergint and stace with patable water before reuse. Fresh distinction solution should be made dath or if visibly solied.

### Sanitizing batchery rooms, incubators and batchers, poultry houses and livestock buildings by fogging

- A. Hatchery rooms: Observoom off so fag is confined to room to be treated. Prepare a stock solution of one (1) part VIROCID to four (4) parts water (25 fluid ownce VROCID to 100 fluid ownce water). Insert the rozale of the fagging device through a suitable opining in the room. With the setting on maximum output, fag 125 fluid ownces for each 1000 abits yord. Do not allow people to breathe or contact the fag or to enter the room until the fag has completely settled. Normally this is 1-4 hours in this environment. Note: The generated fag is very intenting to eyes, sidn and mucous membranes. Under no droumstances should a room or building be entered by anyone until the fag has completely settled, normally 1-4 hours after the actual fagging. If the building or room must be entered, then the individuals entering the building or room must were a self contained respirator approved by MICSM/MSHA, coagles, long skirt, slewes and ponts.
- 8. Incubators and hatchers: Prepare a stock solution of one (1) part VILOCID to four (4) parts water. Fog 3 our custor 100 abic feet of this into setters and hatchers immediately after transfer. Repeat daily. Discontinua hatcher tractments approximately 24 hours before pulling the hatch. Bo not allow people to contact or hirestile fits fog and do not writer machines until the fig has settled (30-60 inhetes after foggling is completed) to do this, lastell permanent foggling nazzles in setters and hatchers and use on air compressor to disperse the scattling solution as a fog. It is also satisfactory to fog setters and hatchers with a 1:1000 solution of VIROCID. If this is done, fog for 30-90 seconds once perhour or once every two hours.
- C. Poultry houses and livestock huildings. After the house has been depopulated and discret as in 1. A to Funder "Distriction of non-food surfaces, form, animal, and poultry housing facilities and equipment", decide check to be sure all people, poultry, Investock and jets have vacated the building. Once all windows, doors, auntaiss, etc. inciting the house as closed as tight as jossible. Prepare a stock soletion of one (1) part VIROCID to four (4) parts writer (25 full concer VIROCID to 100 full dounce worked. Insert the nazzle of the fogging device through a suitable opening in the room. With the setting on maximum output, fog 125 full conces for each 1000 cubic yard. The fogger itself may be placed just inside the door of the building to be treated, or the nazzle of the fogger may be inserted through a suitable opening in the door or building. The opening should be just large exough to accommodate the enzale. After begging, the building should be kept does ditor themly-four hours. After twenty-four hours, the fog should have settled and the house can now be opened and stret. The house should be opened for a minimum of the only on hours kefore it is repopulated with positivg all treators. Note: The generated log is very initiating to eyes, skin and minious membranes. Under no characteristic should a room or building be intered by pryone until the fog lass completely satisfied, normally 1-4 hours after the actual fogging. If the building or room must weer a self-contained respirator approved by MIOSH/MSHA, gaggles, long shirt, sleaves and points. If feeders and workers were not removed form the premise during heatment, or were not adequately covered to prevent contact with treatment, they should be weshed with determent and woler before use for powerly or livestock.

### Control of algae and slime forming bacteria in recirculating cooling water systems and evaporative condensers

- A. VROCO should be added in the system directly and not mixed with any other chemicals are delitives; it should be added at a point where uniform mixing and even distribution will occur.
- Severely fouled systems should be chanically and/or manually decided before adding VIROCID treatment. If Algoe/Stine growth is absent or minimal, proceed with the letter face.
- C. Initial Dose: 2.5 fluid outces of VIROCID per 100 gallors of water (50ppm) in the system. Repeat treatment until algoe/stime growth is controlled. Maintenance Dose: After algoe control is evident/adrieved, apply 1.25 fluid outces of VIROCID per 100 gallons of water (25ppm) in the system every 7 days (weekly). Repeat treatment as needed to maintain algoe/stime control.

### STORAGE AND DISPOSAL:

Denot conteminate water, food, or fixed by storage and disposal. Storage: Store in a cool, dry place in tightly closed container away from children. Avoid temperatures below 23°F and above 113°F. Disposal of pestificide: Pesticide wasks are could be found in proper disposal of excess pesticide, spray mixture or riscate is a violation of Federal Law. If these wasks cannot be disposed of the sec according to label instructions, contract your State Pesticide or Environmental Control Agency, or the Hazardous Waste inpresentatives at the nearest EPA Beginnel Office for guidance. Disposal of container: Triple rinse. Then office for recycling or purcture and dispose in a contrary lendful. Dispose by indirection, or if allowed by state and local controlless, by humby. If burned, stay out of smake.

#### Preparation table

| dilution | Preparation method                  |
|----------|-------------------------------------|
| 1:400    | 1/3 fluid ounce per gallon of water |
| 1:250    | 1/2 fluid conce per gallon of water |
| 1:200    | 2/3 fluid ounce per gallon of water |

### DWITED WARRANTY AND DISCLAMER:

The manufacture wasness (a) that this product conforms to the chamical description in the lobel; (b) that this product is a reasonable fit for the purposes set furth in the directors for use when it is used in accordance with such directors; well (c) that the directors for use when it is used in accordance with such directors; which is the directors of the directors of the directors and of the directors are directors on the first own of the directors of the directors, we mings or customs below respectively excludes and directors of the directors, wornings or customs beyond according and manufacture to called a customs below the such directors, regimes reading from the use of this product is any normal which is curricular to the directors, wornings or customs beyond according and manufacture to called a customs below the directors of the directo



# SAFETY DATA SHEET

Page: 1

Revised edition no : 7

Date: 19 / 1 / 2006

Supersedes: 1/9/2005

VIROCID

D004C5.3





C : Corrosiv

| Health: 3            | WARNING : Corrosive or toxic. Avoid skin contact or inhalation. |
|----------------------|---|
| Flammability: 0      | Not combustible.  |
| Reactivity: 0        | Stable : Not reactive when mixed with water.                    |
| Special Notice Key : |   |

## Producer

CID LINES NV/SA Waterpoortstraat, 2 B-8900 leper Belgique-Belgie Tel. + 32 57 21 78 77 Fax +32 57 21 78 79

In case of emergency: + 32 70 245 245

# Responsible for distribution

CID LINES NV/SA
Waterpoortstraat, 2
B-8900 leper Belgique-Belgie
Tel. + 32 57 21 78 77
Fax +32 57 21 78 79
In case of emergency: + 32 70 245 245

# 1. PRODUCT INDENTIFICATION

Company identification : See producer.

Trade name : VIROCID

Use : Industrial. See product bulletin for detailed information.

# 2. HAZARD INGREDIENTS / IDENTITY INFORMATION

| Substance name                          |   | Contents  | CAS No    | EC No     | Index No     | Classification                                    |
|---|---|-----------|-----------|-----------|--------------|---|
|   | : | ca 47 %   | 7732-18-5 | 231-791-2 |              |   |
| Alkyldimethylbenzylammoniumchlorid<br>e | : | 17.06 %   | 8001-54-5 | 231-635-3 |              | Xn; R21/22<br>C; R34                              |
| Isopropanol                             | : | 146.3 g/l | 67-63-0   | 200-661-7 | 603-117-00-0 | F; R11<br>R67<br>Xi; R36                          |
| Glutaraldehyde                          | : | 10.725 %  | 111-30-8  | 203-856-5 | 605-022-00-X | T; R23/25<br>C; R34<br>R42/43<br>N; R50           |
| Didecyldimethylammonium chloride        | : | 7.8 %     | 7173-51-5 | 230-525-2 | 612-131-00-6 | Xn; R22<br>C; R34                                 |
| Non ionic surfactant                    | : |           |           |           |              | Xn; R22<br>Xi; R41                                |
| Glyoxal                                 | : |           | 107-22-2  | 203-474-9 | 605-016-00-7 | Muta. Cat. 3; R68<br>Xn; R20<br>Xi; R36/38<br>R43 |
| Complexing agent                        | : |           |           |           |              |   |

# 3. PHYSICAL / CHEMICAL CHARACTERISTICS

Initial boiling point : 200°F Specific gravity : 1.005

Vapour pressure mm/Hg : No data available.

Relative vapour density (air=1) : No data available.

Evaporation rate (ether=1) : No data available.

pH value : 3 - 5
Solubility in water : Complete.
Odour : Aldehyde.

# CID LINES NV/SA

In case of emergency: + 32 70 245 245



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VIROCID

D004C5.3

# 3. PHYSICAL / CHEMICAL CHARACTERISTICS (continued)

Colour : Colourless to light yellow.

Freezing point [°C] : 15°F

Density : ca. 1.005

Physical state : Liquid.

# 4. FIRE AND EXPLOSION HAZARD DATA

Flammable class : Not combustible.

Extinguishing media : All extinguishing media can be used.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to

enter environment.

Special exposure hazards : High temperature may liberate dangerous gases.

Explosion limits - lower [%] : Not applicable.

Explosion limits - upper [%] : Not applicable.

# 5. REACTIVITY DATA

Conditions to avoid : Extremely high or low temperatures.

Materials to avoid : None under normal conditions.

Hazardous decomposition products : No data available.

Hazardous reactions : Avoid contact with : strong acids. strong oxidizing agents.

Hazardous properties : None under normal conditions.

Hazardous Polymerization : Will not occur.

# 6. HEALTH HAZARD DATA

Identification of the product : Liquid.

Primary route of exposure : Vapours inhalation. Skin and eyes contact.

Symptoms relating to use

Inhalation : Cough. Sore throat. Inhalation of vapours may cause respiratory irritation.

Skin contact : Redness, pain. Causes burns.

Eye contact : Redness, pain. Blurred vision. Burning sensation. Risk of damage to eyes.

Ingestion : Abdominal pain, nausea. Burning sensation.

First aid

Inhalation : Assure fresh air breathing. Obtain medical attention if breathing difficulty persists.

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and

water, followed by warm water rinse. Seek medical attention if irritation develops.

Eye contact
 Rinse immediately with plenty of water. Contact ophthalmologist immediately.

Ingestion : Rinse mouth. Do not induce vomiting because of corrosive effects. Call a physician

immediately.

## 7. PRECAUTIONS FOR SAFE HANDLING AND USE

After spillage and/or leakage : Clean up any spills as soon as possible, using an absorbent material to collect it.

Dilute residues and flush. Recover the cleaning water for diposal.

Disposal : Hazardous waste. Avoid release to the environment. Dispose in a safe manner in

accordance with local/national regulations.

Precautions in handling and storage : Handle in accordance with good industrial hygiene and safety procedures.

CID LINES NV/SA

In case of emergency: + 32 70 245 245

Waterpoortstraat, 2 B-8900 leper Belgique-Belgie Tel. + 32 57 21 78 77 - Fax +32 57 21 78 79



# SAFETY DATA SHEET

Page: 3

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VIROCID

D004C5.3

## 8. CONTROL MEASURES

Personal precautions : Equip cleanup crew with proper protection. Wear recommended personal

protective equipment.

Personal protection

Respiratory protection
 No special respiratory protection equipment is recommended under normal

conditions of use with adequate ventilation.

- Hand protection : Gloves.

- Skin protection : If skin contact or contamination of clothing is likely, protective clothing should be

worn.

- Eye protection : Eye protection should only be necessary where liquid could be splashed or

sprayed.

Ingestion : When using, do not eat, drink or smoke.

### 9. TRANSPORTATION

NFPA Label : Health hazard : 2

Fire hazard: 0

Hazardous reaction: 0

- Proper shipping name : UN1760 CORROSIVE LIQUID, N.O.S. (Alkyldimethylbenzylammoniumchloride,

Glutaraldehyde), 8, III

- UN No. : 1760 UN Packing group : III

Hazard Label(s)



: Corrosive.

- IMO-IMDG code : Class 8

