



Section 01 Identification

Product Identifier Noriquat Other Means of Identification Not available

Product Use and Restrictions

on Use

Disinfectant-Cleaner-Sanitizer-Fungicide-Mildewstat-Virucide-Deoderizer For Hospital,

Institutional, Industrial, School, Dairy and Other Farm Use.

Initial Supplier Identifier ClearTech Industries Inc.

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Prepared By ClearTech Industries Inc. technical writer

24-Hour Emergency Phone 306.664.2522

Section 02 Hazard Identification

Physical Hazards

This product does not qualify for any physical hazard class under WHMIS 2015

Health Hazards

Skin corrosion / irritation Category 2 Serious eye damage / eye Category 1

irritation

Signal Word

Danger

Hazard Statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

Pictograms



Precautionary Statements

Prevention

P264 Wash affected body parts thoroughly after handling. P280 Wear protective gloves, eye protection, face protection.

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Response

P303 P352 P332 IF ON SKIN (or hair): Wash with plenty of water. If skin irritation occurs: Get medical advice /

P313 P362 P364 attention. Take off contaminated clothing and wash it before reuse.

P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

P310 and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Hazards Not Otherwise Classified

Not available

Supplemental Information

Not available

Section 03 Composition / Information on Ingredients

Hazardous Ingredients:

Chemical name Common name(s) **CAS** number Concentration (w/w%)

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Benzalkonium chloride 68424-85-1 1-5%*

Section 04 First-Aid Measures

Description of necessary first-aid measures

Inhalation Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON

CENTER or doctor if you feel unwell.

Ingestion Rinse mouth. Get medical advice / attention if you feel unwell or are concerned.

Skin Avoid direct contact. Wear chemical protective clothing, if necessary. Take off immediately contaminated contact

clothing, shoes and leather goods. Rinse skin with lukewarm, gently flowing water / shower for 15 to 20

minutes. Get medical advice / attention. Wash contaminated clothing before re-use, or discard.

Eye contact Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do.

Continue rinsing for 30 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the

face. Immediately call a POISON CENTER or doctor.

Most important symptoms and effects, both acute and delayed

Inhalation May cause respiratory irritation. Ingestion May cause discomfort or nausea.

Causes skin irritation. Skin contact

Eye contact Causes serious eye damage.

Further information For further information see Section 11 Toxicological Information.

Section 05 Fire Fighting Measures

Suitable extinguishing media Extinguish fire using extinguishing agents suitable for the surrounding fire.

Unsuitable extinguishing Water jets are not recommended in fires involving chemicals.

media

Specific hazards arising from In the event of a fire oxides of carbon and nitrogen may be released.

the chemical

Special protective equipment Wear NIOSH-approved self-contained breathing apparatus and chemical-protective

for fire-fighters

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clothing.

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^{*}Exact concentration withheld as a trade secret.

Section 06 Accidental Release Measures

Personal Precautions / **Protective Equipment / Emergency Procedures** Wear appropriate personal protective equipment (See Section 08 Exposure Controls and Personal Protection). Stay upwind, ventilate area.

Environmental Precautions

Prevent material from entering waterways, sewers or confined spaces. Notify local health and wildlife officials. Notify operators of nearby water intakes.

Methods and Materials for Containment and Cleaning Up

SMALL SPILLS: Stop or reduce leak if safe to do so. Clean up spill with non-reactive absorbent and place in suitable, covered, labeled containers. Flush area with water. Contaminated absorbent material may pose the same hazards as the spilled product. LARGE SPILLS: Contact fire and emergency services and supplier for advice.

Section 07 Handling and Storage

Precautions for Safe Handling Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.

> Inspect containers for damage or leaks before handling. If the original label is damaged or missing replace with a workplace label. Have suitable emergency equipment for fires, spills and leaks readily available.

Never return contaminated material to its original container.

Conditions for Safe Storage

Store in a cool, dry, well-ventilated area, away from heat sources and incompatible materials. Always store in original labeled container. Keep containers tightly closed when not in use and when empty. Empty containers may contain hazardous residues. Protect label and keep it visible.

Incompatibilities

Acids, such as sulphuric, nitric, hydrochloric, phosphoric, flurosilicic (HFSA), sulphonic,

acetic, citric, oxalic, and formic.

Bases, such as potassium hydroxide, sodium hydroxide, calcium hydroxide (slaked lime),

ammonia, carbonates.

Oxidizing agents, such as oxygen, hydrogen peroxide, sulphuric and nitric acids,

hypochlorites and permanganates.

Section 08 Exposure Controls and Personal Protection

Exposure limits

There are no known exposure limits for this product.

Engineering controls

Ventilation Requirements

Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other

A soak hose and eyewash station or emergency shower and eyewash station should be available, tested, and be in close proximity to the product being handled in accordance with provincial regulations.

Protective equipment

The following are recommendations only. It is the responsibility of the employer / user to conduct a hazard assessment of the process in which this product being used and determine the proper engineering controls and PPE for their process. Additional regulatory and safety information should be sought from local authorities and, if needed, a professional industrial hygienist.

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Eye and face protection Where there is potential eye or face exposure, tightly fitting safety goggles and a face shield

or a full face respirator or similar protective equipment which protects the wearer's face and eyes are recommended. Contact lenses are not recommended; they may contribute to

severe eye injury.

Hand and body protection Disposable latex or nitrile gloves are recommended to prevent incidental contact. Butyl

rubber, neoprene, or PVC skin protection is recommended for extended contact. Leather

gloves are not recommended for chemical protection. Refer to manufacturer's

specifications for breakthrough times and permeability information; note that breakthrough times and permeability vary with temperature, application and age of material. Continued use of contaminated safety gear or clothing is not recommended; wash before reuse or

discard.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.

Thermal hazards

Not available

Section 09 Physical and Chemical Properties

Appearance

Physical state Liquid Colour Violet

Odour Not available
Odour threshold Not available

Property

pH 6.5-8.5

Melting point / freezing point Not available

Initial boiling point and

boiling range

Not available

Flash point

Evaporation rate

Flammability

Upper flammable limit

Lower flammable limit

Vapour pressure

Not available

Not available

Not available

Vapour densityNot availableRelative densityNot applicableSolubilitySoluble in water

Partition coefficient: n-

octanol/water

Not available

Auto-ignition temperatureNot availableDecomposition temperatureNot availableViscosityNot available

Specific gravity 0.98-1.00 g/mL @ 20 °C

Particle characteristics Not applicable

Section 10 Stability and Reactivity

Reactivity Not available

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Stability This product is stable if stored according to the recommendations in Section 07.

Possibility of hazardous

reactions

Hazardous polymerization is not known to occur.

Conditions to avoid Avoid contact with incompatible materials. Do not heat.

Incompatible materials Acids, such as sulphuric, nitric, hydrochloric, phosphoric, flurosilicic (HFSA), sulphonic,

acetic, citric, oxalic, and formic.

Bases, such as potassium hydroxide, sodium hydroxide, calcium hydroxide (slaked lime),

ammonia, carbonates.

Oxidizing agents, such as oxygen, hydrogen peroxide, sulphuric and nitric acids,

hypochlorites and permanganates.

Hazardous decomposition

products

Thermal decomposition may produce oxides of carbon and nitrogen.

Section 11 Toxicological Information

Acute Toxicity (LD50 / LC50 values)

ComponentRouteSpeciesValueExposure timeAcute toxicity estimateOralRat>2000 mg/kg bw

Dermal Rabbit >10,000 mg/kg bw

Toxic Health Effect Summary

Chemical

No known effects

characteristics

Skin Causes skin irritation.

IngestionMay cause discomfort or nausea.InhalationMay cause respiratory irritation.Eye contactCauses serious eye damage.

Sensitization This product and its components at their listed concentration have no known sensitizing effects.

Mutagenicity This product and its components at their listed concentration have no known mutagenic effects.

This product and its components at their listed concentration have no known carcinogenic effects.

Reproductive

toxicity

This product and its components at their listed concentration have no known reproductive effects.

Specific organ

toxicity

This product and its components at their listed concentration have no known effects on specific

organs.

Aspiration hazard

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Synergistic materials

Not available Not available

Section 12 Ecological Information

Ecotoxicity

Component	Туре	Species	Value	Exposure Time
Acute toxicity estimate	LC50	Fish	17 mg/L	96 hours
	EC50	Aquatic invertabrates	0.42 mg/L	48 hours
	EC50	Aquatic algae	1.0 mg/L	72 hours

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Biodegradability The domestic substance list categorizes all of the components of this product as non-

persistent.

Bioaccumulation The domestic substance list categorizes Benzalkonium chloride as bioaccumulative.

Mobility This product is water soluble, but is expected to adsorb to soil and is not expected to

contaminate ground water.

Other adverse effects The domestic substance list categorizes Benzalkonium chloride as inherently toxic to

aquatic organisms.

Section 13 Disposal Considerations

Waste From Residues / **Unused Products**

Dispose in accordance with all federal, provincial, and local regulations including the

Canadian Environmental Protection Act.

Do not remove label, follow label warnings even after the container is empty. Empty Contaminated Packaging

containers should be recycled or disposed of at an approved waste handling facility.

Section 14 Transport Information

UN number This product does not meet the definition of dangerous goods per Part 2 of Transport of

Dangerous Goods Regulations

UN proper shipping name

and description

Not available

Transport hazard class(es) Not available Not available Packing group **Excepted quantities** Not available

Environmental hazards

Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special precautions No special precautions Transport in bulk ERAP index: not available

MARPOL 73/78 and IBC Code:

This product is not listed in Chapter 17 of the IBC Code.

Additional information Secure containers (full or empty) during shipment and ensure all caps, valves, or closures

are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 16 of this SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and published test data regarding the classification of this product are listed in the references at section 16 of this SDS.

Section 15 Regulatory Information.

NOTE: THE PRODUCT LISTED ON THIS SAFETY DATA SHEET HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN HAZARDOUS PRODUCTS REGULATIONS. THIS SAFETY DATA SHEET CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

All components of this product appear on the domestic substance list.

Section 16 Other Information

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Note: The responsibility to provide a safe workplace remains with the buyer / user. The buyer / user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the buyer / user to comply with all applicable laws and regulations regarding handling, using, reselling and shipping this product.

Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the RDC Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

References:

- 1) NIOSH Pocket Guide to Chemical Hazards; U.S. Department of Health and Human Services, https://www.cdc.gov/niosh/npg/default.html
- 2) WorkSafe BC E-Limit; Workers' Compensation Foard of British Columbia, https://elimit.online.worksafebc.com/
- 3) ECHA Registered Substance Dossier; European Chemicals Agency, https://echa.europa.eu/registration-dossier/-/registered-dossier/7825
- 4) Transportation of Dangerous Goods Regulations; Transport Canada, https://laws-lois.justice.gc.ca/eng/regulations/SOR-2001-286/index.html
- 5) Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Seventh revised edition
- 6) International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) 2007 Edition
- 7) The ACS Style Guide

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