

01/26/2017

01/26/2017

1 • Identification

. Product identifier

. Product name: **DONOSAN Disinfectant and no rinse sanitizer**

. Article number: 2036278101

. DIN: 02360659

. Recommended use:

Disinfectant hard surfaces

Hard surface cleaner and sanitizer

. Restrictions on use: All other uses than those indicated on the product label and technical data sheet

. Manufacturer:

CHANDLER

225 Thorne Avenue,

Saint John, New Brunswick

Canada

E2L 4L9

1-800-363-9611

. Client Identification Number: 201003

. Emergency telephone number: CANUTEC 1-613-996-6666

2 • Hazard identification

. Classification of the product as sold:

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

. Additional information:

This product is registered as a drug according to the Food and Drugs Act (R.S.C., 1985, c. F-27). It is not regulated under the Hazardous Products Act (R.S.C., 1985, ch. H-3). The following information is provided to our customers for their training and safety programs.

. Label elements:

. Hazard pictograms:



GHS05

. Signal word: Danger

. Hazard statements:

Causes severe skin burns and eye damage.

. Precautionary statements:

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or a doctor.

Wash contaminated clothing before reuse.

Dispose of contents and container in accordance with local, regional and national regulations.

(Contd. on page 2)

01/26/2017

01/26/2017

Product name: DONOSAN Disinfectant and no rinse sanitizer

(Contd. of page 1)

- . **Classification system:**
- . **NFPA ratings (scale 0 - 4):**



Health = 2
Fire = 0
Reactivity = 0

- . **Hazard not otherwise classified:** None Known
- . **Notes:** For the wording of the listed abbreviations refer to section 16.

- . **Product AT USE DILUTION:** N/A

3 • Composition/Information on ingredients

- . **Chemical characterization: Mixtures**
- . **Description:** Aqueous mixture consisting of the following components:
- . **Components:**

CAS No.	Description	Concentration
68391-01-5	Alkyl (C12-C18) Dimethyl Benzyl Ammonium Chloride	3-7%
85409-23-0	Alkyl (C12, C14) Dimethyl Ethylbenzyl Ammonium Chloride	3-7%
64-17-5	Ethanol	0.5-1.5%

- . **Additional information:** Any concentration shown as a range is to protect confidentiality or is due to batch variation.

4 • First aid measures

- . **Description of first aid measures**
- . **General information:** Immediately remove any clothing soiled by the product.
- . **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation. Get medical attention.
- . **After skin contact:** Immediately rinse with water.
- . **After eye contact:**
Rinse opened eye for several minutes under running water. Remove contact lenses, if present and easy to do so. Continue rinsing for a minimum of 15 to 60 minutes. Then consult a doctor.
- . **After ingestion:**
Drink copious amounts of water and provide fresh air. Immediately call a doctor. Do not induce vomiting.
- . **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

5 • Firefighting measures

- . **Suitable extinguishing media:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
- . **Specific hazards arising from the product:** No further relevant information available.
- . **Special protective equipment and precautions for fire-fighters:**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
- . **Additional information:** This product is not flammable.

6 • Accidental release measures

- . **Personal precautions, protective equipment and emergency procedures:**
Wear recommended protective equipment(s). Keep unprotected persons away.
Protective gloves (See Protection of Hands)

(Contd. on page 3)

01/26/2017

01/26/2017

Product name: DONOSAN Disinfectant and no rinse sanitizer

(Contd. of page 2)

- . **Environmental precautions:** Dilute with plenty of water.
- . **Methods and material for containment and cleaning up:**
Surround and absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- . **Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 • Handling and storage

- . **Handling:**
- . **Precautions for safe handling:** Ensure good ventilation at the workplace.
- . **Information about protection against explosions and fires:** Protect from heat.
- . **Conditions for safe storage, including any incompatibilities:**
- . **Storage:**
- . **Requirements to be met by storerooms and receptacles:** No special requirements.
- . **Information about storage in one common storage facility:** Not required.
- . **Conditions for safe storage, including any incompatibilities:** Protect from heat and direct sunlight.
- . **Specific end use(s):** No further relevant information available.

8 • Exposure controls/ Personal protection

- . **Control parameters:**

- . **Components with limit values that require monitoring at the workplace:**

64-17-5 Ethanol

EL	Short-term value: 1000 ppm
EV	Long-term value: 1.900 mg/m ³ , 1.000 ppm

- . **Additional information:** The lists that were valid during the creation were used as basis.

- . **Exposure controls:**

- . **Undiluted Product:**

- . **Personal protective equipment:**



Protective gloves (See Protection of Hands)



Safety glasses (See Eye protection)

- . **General protective and hygienic measures:**

Avoid contact with the eyes and skin.
The usual precautionary measures for handling chemicals should be followed.
Wash hands before breaks and at the end of work.

- . **Breathing equipment:** Not required.
- . **Protection of hands:** Protective Gloves
- . **Eye protection:**
Safety glasses (suggested)

(Contd. on page 4)

01/26/2017

01/26/2017

Product name: DONOSAN Disinfectant and no rinse sanitizer

(Contd. of page 3)

Protective glasses are recommended when handling concentrated product.

. Body protection:

Protective work clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. (recommended)

9 • Physical and chemical properties**. Information on basic physical and chemical properties:****. General Information:****. Appearance:**

Form:	Liquid.
Colour:	Red
Odour:	Quaternary
Odor threshold:	Not determined.
pH-Value:	6.5 – 8.5 (25 °C)

. Change in condition:

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	N/D

Flash point:	Not determined
Flammability (solid, gaseous):	Not applicable

Ignition temperature:	N/D
-----------------------	-----

Decomposition temperature:	Not determined.
----------------------------	-----------------

Auto igniting:	Product is not selfigniting.
----------------	------------------------------

Danger of explosion:	Product does not present an explosion hazard.
----------------------	---

. Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

Vapour pressure:	N/D
Relative density:	0.985 – 1.005 (25 °C)
Vapour density (air=1):	<1 (aqueous solution)
Evaporation rate:	Not determined.
Solubility in / Miscibility with:	
Water:	Fully miscible

Partition coefficient (n-octanol/water):	Not determined.
--	-----------------

. Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

. Solvent content:

VOC content:	N/D
--------------	-----

(Contd. on page 5)

01/26/2017

01/26/2017

Product name: **DONOSAN Disinfectant and no rinse sanitizer**

(Contd. of page 4)

10 • Stability and reactivity

- . **Reactivity:** Not determined.
- . **Chemical stability:** The product is stable.
- . **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- . **Possibility of hazardous reactions:** No dangerous reactions known.
- . **Conditions to avoid:** Avoid freezing and extreme heat conditions.
- . **Incompatible materials:** No further relevant information available.
- . **Hazardous decomposition products:**
In case of decomposition: carbon monoxide and carbon dioxide and traces of volatile halogenated compounds.

11 • Toxicological information

- . **Information on the likely routes of exposure**
- . **Acute toxicity:**
- . **Numerical measures of toxicity:**

Components	Type	Value (Species)
Mean of exposure		
ATE (Acute Toxicity Estimates)		
Oral	LD50	5520 mg/kg
68391-01-5 Alkyl (C12-C18) Dimethyl Benzyl Ammonium Chloride		
Oral	LD50	650 mg/kg (Rat)
64-17-5 Ethanol		
Oral	LD50	7060 mg/kg (Rat)
Inhalative	LC50 (4 h)	20000 mg/L (Rat)

- . **Symptomes related to the physical, chemical and toxicological characteristics**
- . **If on the skin:**
CORROSIVE: Strong caustic effect on skin and mucous membranes.
Irritant to skin and mucous membranes.
- . **If on the eye:**
CORROSIVE: Strong caustic effect.
Strong irritant with the danger of severe eye injury.
- . **After ingestion:** May cause irritation of the gastrointestinal tract, nausea, vomiting and headache.
- . **Sensitization:** No sensitizing effects known.
- . **Delayed and immediate effects, and chronic effects from short-term and long-term exposure:**
Prolonged or frequent contact can cause eczema and inflammation of the skins as a results of degreasing.
- . **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant.

- . **Carcinogenic categories:**

IARC (International Agency for Research on Cancer)		
64-17-5	Ethanol	1

- . **NTP (National Toxicology Program)**

None of the ingredients is listed.

(Contd. on page 6)

01/26/2017

01/26/2017

Product name: DONOSAN Disinfectant and no rinse sanitizer

(Contd. of page 5)

12 • Ecological information

- . **Bioaccumulative potential:** No further relevant information available.
- . **Ecotoxicity:** No relevant information available.
- . **Other adverse effects** No further relevant information available.

13 • Disposal considerations

- . **Waste treatment methods recommendation:**
- . **Waste treatment methods recommendation:**
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with local authority requirements.
Dispose in accordance with all applicable federal, state, provincial and local laws and regulations. Contact your local, state, provincial or Federal environmental agency for specific rules.
- . **Uncleaned packagings:**
- . **Uncleaned packagings recommendation:**
Do not re-use empty containers.
Dispose of packaging according to regulations on the disposal of packagings.
- . **Recommended cleansing agent:**
Water
Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14 • Transport information

- . **UN-Number**
- . **DOT, IATA** UN1903
- . **UN proper shipping name**
- . **DOT/TDG** Disinfectant, liquid, corrosive, n.o.s. (Quaternary Ammonium Compound)
- . **IATA** DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary Ammonium Compound)
- . **Transport hazard class(es)**

- . **DOT, IATA**
- . **Class** 8 Corrosive substances
- . **Label** 8
- . **Packing group**
- . **DOT, IATA** III

15 • Regulatory information

- . **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- . **Canadian substance listings:**

. Canadian Domestic Substances List (DSL)	
68391-01-5	Alkyl (C12-C18) Dimethyl Benzyl Ammonium Chloride
64-17-5	Ethanol
7732-18-5	water, distilled, conductivity or of similar purity
. Canadian Ingredient Disclosure list (limit 0.1%)	
64-17-5	Ethanol

(Contd. on page 7)

01/26/2017

01/26/2017

Product name: DONOSAN Disinfectant and no rinse sanitizer

(Contd. of page 6)

. Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

16 • Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

. Department issuing SDS:

Prepared by :

Regulatory Affairs Department

. Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent