



## SAFETY DATA SHEET

### Ramsol RS1 Disinfectant Canister

#### 1. Identification

##### Product identifier

**Product name** Ramsol RS1 Disinfectant Canister

**Product number** USA

##### Recommended use of the chemical and restrictions on use

**Application** Disinfectant.

##### Details of the supplier of the safety data sheet

**Supplier** Ramsol  
Quin Global US, inc  
5710 F Street  
Omaha, NE 68117  
(402) 731 3636  
info.us@quin-global.com

##### Emergency telephone number

**Emergency telephone** Chemtrec: 1 800 424 9300

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

**Physical hazards** Aerosol 3 Press. Gas, Compressed - H280

**Health hazards** Not Classified

**Environmental hazards** Not Classified

**Human health** The liquid may be irritating to eyes, respiratory system and skin. Symptoms following overexposure may include the following: Headache. Dizziness. Nausea, vomiting.

##### Label elements

##### Hazard symbols



**Signal word** Warning

**Hazard statements** H280 Contains gas under pressure; may explode if heated.

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<b>Precautionary statements</b>	<p>P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>P251 Pressurized container: Do not pierce or burn, even after use</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P412 Do not expose to temperatures exceeding 50°C/122°F.</p>
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<b>Contains</b>	Didecyldimethylammonium chloride, Alkyl dimethyl benzyl ammonium chloride, N,N-DIMETHYLOCTYLAMINE-N-OXIDE, ETHYL ALCOHOL
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### Other hazards

This product does not contain any substances classified as PBT or vPvB.

### 3. Composition/information on ingredients

#### Mixtures

<b>Didecyldimethylammonium chloride</b> CAS number: 7173-51-5	<1%
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 3 - H311 Skin Corr. 1B - H314 Eye Dam. 1 - H318	
<b>Alkyl dimethyl benzyl ammonium chloride</b> CAS number: 68424-85-1	<1%
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318	
<b>N,N-DIMETHYLOCTYLAMINE-N-OXIDE</b> CAS number: 2605-78-9	<1%
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H335	

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<b>ETHYL ALCOHOL</b> CAS number: 64-17-5	<b>&lt;1%</b>
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2B - H320 Repr. 1A - H360 STOT SE 1 - H370 STOT SE 3 - H335 STOT RE 1 - H372	

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

<b>General information</b>	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.
<b>Skin Contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Only remove contact lenses if the person is conscious, coherent and they can remove them themselves. If adhesive bonding occurs, do not force eyelids apart. Continue to rinse for at least 15 minutes. If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.

#### Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	May cause coughing and difficulties in breathing. May cause eye and respiratory system irritation. Overexposure may depress the central nervous system, causing dizziness and intoxication.
<b>Ingestion</b>	Aspiration hazard if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract. May Cause the following effects: Gastrointestinal symptoms, including upset stomach. Central nervous system depression. Nausea, vomiting. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
<b>Skin contact</b>	May be absorbed through the skin. Product has a defatting effect on skin. The product is irritating to eyes and skin. A single exposure may cause the following adverse effects: Dryness and/or cracking.
<b>Eye contact</b>	Causes serious eye irritation. Burns can occur. A single exposure may cause the following adverse effects: Pain. Conjunctivitis, irritation, tearing. Prolonged or repeated exposure may cause the following adverse effects: Irritation of eyes and mucous membranes. Prolonged contact causes serious eye and tissue damage.

### 5. Fire-fighting measures

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### Special hazards arising from the substance or mixture

**Specific hazards** Pressurized container: Must not be exposed to temperatures above 50°C/120°F Containers can burst violently or explode when heated, due to excessive pressure build-up.

### Advice for firefighters

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** For personal protection, see Section 8.

### Environmental precautions

**Environmental precautions** Avoid discharge into drains. Contain spillage with sand, earth or other suitable non-combustible material.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Stop leak if possible without risk. Provide adequate ventilation. Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

## 7. Handling and storage

### Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapors. Use approved respirator if air contamination is above an acceptable level. Container must be kept tightly closed when not in use.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep away from heat, sparks and open flame. Keep container tightly closed. Keep only in the original container. Pressurized container: Must not be exposed to temperatures above 50°C/120°F Do not allow to freeze.

## 8. Exposure controls/Personal protection

### Control parameters

### Occupational exposure limits

#### ETHYL ALCOHOL

Long-term exposure limit (8-hour TWA): ACGIH 1000 ppm  
ACGIH = American Conference of Governmental Industrial Hygienists.

### Exposure controls

#### Protective equipment



**Appropriate engineering controls**

This product must not be handled in a confined space without adequate ventilation. Provide adequate general and local exhaust ventilation.

**Eye/face protection**

Wear chemical splash goggles.

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<b>Hand protection</b>	Use protective gloves.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.
<b>Hygiene measures</b>	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. If exposure levels are likely to be exceeded, use a half face mask fitted with an organic vapor filter for short term low level exposures. For long term or high level exposures, a supplied air respirator should be used.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Aerosol.
<b>Color</b>	White / off-white.
<b>Odor</b>	Mild.
<b>Relative density</b>	1.28
<b>Solubility(ies)</b>	Water soluble when wet
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 0 g/l.

### 10. Stability and reactivity

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Oxidizing agents. Reducing agents.
<b>Hazardous decomposition products</b>	Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Nitrous gases (NO <sub>x</sub> ).

### 11. Toxicological information

#### Information on toxicological effects

#### Toxicological information on ingredients.

#### Didecyldimethylammonium chloride

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 329.0 mg/kg)

Species Rat

ATE oral (mg/kg) 329.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 1,000.0 mg/kg)

Species Rat

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ATE dermal (mg/kg) 1,000.0

Skin corrosion/irritation

Skin corrosion/irritation 4 hours

Alkyl dimethyl benzyl ammonium chloride

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 320.0

Species Rat

ATE oral (mg/kg) 320.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 1,100.0

Species Rat

ATE dermal (mg/kg) 1,100.0

ETHYL ALCOHOL

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 7,060.0

Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 19,977.18

Species Rat

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin Contact May be harmful in contact with skin. Causes skin irritation.

Eye contact Causes eye irritation.

### 12. Ecological information

### 13. Disposal considerations

#### Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### 14. Transport information

Air transport notes 1. <75kg, 2. <150kg

#### UN Number

## Ramsol RS1 Disinfectant Canister

UN No. (TDG) 3500

UN No. (ICAO) 3500

UN No. (DOT) 3500

### UN proper shipping name

Proper shipping name (TDG) Chemical Under Pressure, N.O.S. (Compressed Air)

Proper shipping name (IMDG) Chemical Under Pressure, N.O.S. (Compressed Air)

Proper shipping name (ICAO) Chemical Under Pressure, N.O.S. (Compressed Air)

Proper shipping name (DOT) Chemical Under Pressure, N.O.S. (Compressed Air)

### Transport hazard class(es)

TDG class 2

TDG label(s) 2.2

### Transport labels



### Packing group

Packing group (International) Not applicable.

## 15. Regulatory information

National regulations All applicable legislation listed in other parts of this Safety Data Sheet

Guidance Safety Data Sheets for Substances and Preparations.

### US Federal Regulations

#### **SARA (311/312) Hazard Categories**

Present.

### US State Regulations

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

This product does not contain any chemicals known to the state of California to cause cancer, birth defects or any other reproductive harm.

### Inventories

#### **Canada - DSL/NDSL**

The following ingredients are listed or exempt:

#### **US - TSCA**

The following ingredients are listed or exempt:

## 16. Other information

Revision date 4/3/2020

Revision 11

Supersedes date 8/20/2015

SDS No. 23186

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<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapor. H280 Contains gas under pressure; may explode if heated. H302 Harmful if swallowed. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H320 Causes eye irritation. H335 May cause respiratory irritation. H360 May damage fertility or the unborn child. H370 Causes damage to organs (Respiratory system, Central nervous system). H372 Causes damage to organs (Skin, Liver, Central nervous system, Nervous system, Heart) through prolonged or repeated exposure.
<b>ACA HMIS Health rating.</b>	Slight hazard. (1)
<b>ACA HMIS Flammability rating.</b>	Will not burn. (0)
<b>ACA HMIS Physical hazard rating.</b>	Normally stable. (0)
<b>ACA HMIS Personal protection rating.</b>	B

### DIRECTIONS FOR USE

### PRODUCT LOGO

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. The manufacturer MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. Given the variety of factors that can affect the use and application of this product, many of which are solely within the user's knowledge and control, the user is responsible for determining whether the usage of this product is fit for a particular purpose and suitable for the user's method of use or application. It is essential that the user, not the manufacturer, evaluates this product to determine whether it is fit for a particular purpose and suitable for the user's method of use or application.