

**MILTON ANTIBACTERIAL SURFACE SPRAY - EN**



**SAFETY DATA SHEET**  
(REACH regulation (EC) n° 1907/2006 n° 453/2010)

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier**

**Product name:** Milton Antibacterial Surface Spray

**Y Product Code :** EN

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses:** For cleaning hard surfaces

**Uses advised against:** None known.

**1.3 Details of the supplier of the safety data sheet**

Registered company name : Laboratoire RIVADIS.

Address : Impasse du Petit Rosé Z.I. 79100. LOUZY.

Telephone : 05 49 68 15 15. Fax : 05 49 66 16 41.

fds@laborivadis.fr <http://www.laborivadis.com>

**1.4 Emergency telephone number:** +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA <http://www.centresantipoison.net>.

**SECTION 2 : HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

The product has been classified according to the legislation in force.

**Classification according to Regulation (EC) No 1272/2008 as amended.**

**Health Hazards**

Skin irritation

Category 2

H315: Causes skin irritation.

Serious eye irritation

Category 2

H319: Causes serious eye irritation.

**Environmental Hazards**

Chronic hazards to the aquatic environment

Category 3

H412: Harmful to aquatic life with long lasting effects.

**2.2 Label Elements**



**Signal Word:**

Warning

**Hazard Statement(s):**

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

**General advice:**

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

**Prevention:**

P273: Avoid release to the environment.

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P260: Do not breathe mist.  
P271: Use only outdoors or in a well-ventilated area.  
P264: Wash hands thoroughly after handling.

**Response:** P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P332+P313: If skin irritation occurs: Get medical advice/attention.

**Disposal:** P501: Dispose of contents/container in accordance with local requirements for domestic waste disposal.

**2.3 Other hazards** No data available.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures**

**General information:** No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
BENZALKONIUM CHLORIDE	1 - <2.5%	68424-85-1	270-325-2	No data available.	10	

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# This substance has workplace exposure limit(s).

**Classification**

Chemical name	Classification	Notes
BENZALKONIUM CHLORIDE	Met. Corr.: 1: H290 Acute Tox.: 4: H302 Skin Corr.: 1B: H314 Eye Dam.: 1: H318 Aquatic Acute: 1: H400 Aquatic Chronic: 1: H410	

The full text for all H-statements is displayed in section 16.  
CLP: Regulation No. 1272/2008.

**SECTION 4 : FIRST AID MEASURES****4.1 Description of first aid measures**

**Inhalation:** Move to fresh air.

**Skin Contact:** Flush skin thoroughly with water. Get medical attention if irritation persists after washing.

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**Eye contact:** Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if irritation persists after washing.

**Ingestion:** Rinse mouth thoroughly. Do NOT induce vomiting. Seek medical attention.

**4.2 Most important symptoms and effects, both acute and delayed:** Mildly irritating to skin with prolonged exposure. If mixture comes into contact with eyes may cause mild irritation.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Hazards:** No special precautionary health measures should be needed under anticipated conditions of use.

**Treatment:** Get medical attention if symptoms occur.

**SECTION 5 : FIREFIGHTING MEASURES**

**General Fire Hazards:** No unusual fire or explosion hazards noted.

**5.1 Extinguishing media**

**Suitable extinguishing media:** Extinguish with foam, carbon dioxide, dry powder or water fog.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**5.2 Special hazards arising from the substance or mixture:**

During fire, gases hazardous to health may be formed.

**5.3 Advice for firefighters**

**Special fire fighting procedures:** Wear self-contained breathing apparatus and protective clothing.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with eyes and prolonged or repeated contact with skin.

**6.2 Environmental Precautions:** Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

**6.3 Methods and material for containment and cleaning up:** Dike far ahead of larger spill for later recovery and disposal. Absorb with sand or other inert absorbent. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Stop the flow of material, if this is without risk.

**6.4 Reference to other sections:** See Section 8 of the SDS for Personal Protective Equipment.

**SECTION 7 : HANDLING AND STORAGE**

**7.1 Precautions for safe handling:** Provide adequate ventilation. Avoid contact with eyes. Avoid contact with skin. No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Use only as directed.

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**7.2 Conditions for safe storage, including any incompatibilities:** Store away from incompatible materials. Store in original tightly closed container.

**7.3 Specific end use(s):** For cleaning hard surfaces

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control Parameters****Occupational Exposure Limits**

None of the components have assigned exposure limits.

**8.2 Exposure controls**

**Appropriate Engineering Controls:** No data available.

**Individual protection measures, such as personal protective equipment**

**General information:** Do not eat, drink or smoke when using the product. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection:** If risk of splashing, wear safety goggles or face shield.

**Skin protection**

**Hand Protection:** Use suitable protective gloves if risk of skin contact.

**Other:** Wear appropriate clothing to prevent reasonably probable skin contact.

**Respiratory Protection:** No protection is ordinarily required under normal conditions of use and with adequate ventilation.

**Hygiene measures:** Avoid contact with eyes. Avoid contact with skin. Wash hands thoroughly after handling.

**Environmental Controls:** No eSDS available.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties****Appearance**

<b>Physical state:</b>	liquid
<b>Form:</b>	Clear Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	green - fresh
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	10.00
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	100.00 °C
<b>Flash Point:</b>	> 61.00 °C
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%):</b>	No data available.
<b>Flammability Limit - Lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.

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<b>Density:</b>	No data available.
<b>Relative density:</b>	1.0000
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	No data available.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Autoignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>SADT:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

**9.2 Other information**

<b>VOC Content:</b>	EC Directive 1999/13: 0.32 g/l ~0.03 % (calculated)
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**SECTION 10 : STABILITY AND REACTIVITY**

<b>10.1 Reactivity:</b>	Stable under normal temperature conditions and recommended use.
<b>10.2 Chemical Stability:</b>	Material is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions:</b>	None under normal conditions.
<b>10.4 Conditions to avoid:</b>	Avoid heat or contamination. Do not freeze.
<b>10.5 Incompatible Materials:</b>	Strong acids. Strong oxidizing substances. Strong bases.
<b>10.6 Hazardous Decomposition Products:</b>	By fire, toxic gases may be formed (COx, NOx).

**SECTION 11 : TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

<b>Inhalation:</b>	None under normal conditions.
<b>Skin Contact:</b>	Causes skin irritation.
<b>Eye contact:</b>	Causes serious eye irritation.
<b>Ingestion:</b>	May be ingested by accident. Ingestion may cause irritation and malaise.

**11.1 Information on toxicological effects****Acute toxicity****Oral**

<b>Product:</b>	ATEmix: 23,333.330000 mg/kg
<b>Specified substance(s)</b>	
BENZALKONIUM	LD 50 (Rat): 350.000000 mg/kg
CHLORIDE	

**Dermal**

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b>	

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BENZALKONIUM  
CHLORIDE No data available.

**Inhalation**

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s)**  
BENZALKONIUM  
CHLORIDE

No data available.

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s)**  
BENZALKONIUM  
CHLORIDE

No data available.

**Skin Corrosion/Irritation:**

**Product:** Causes skin irritation.

**Specified substance(s)**  
BENZALKONIUM  
CHLORIDE

No data available.

**Serious Eye Damage/Eye  
Irritation:**

**Product:** Causes serious eye irritation.

**Specified substance(s)**  
BENZALKONIUM  
CHLORIDE

No data available.

**Respiratory or Skin  
Sensitization:**

**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**  
BENZALKONIUM  
CHLORIDE

No data available.

**Germ Cell Mutagenicity**

**In vitro**

**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**  
BENZALKONIUM  
CHLORIDE

No data available.

**In vivo**

**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**  
BENZALKONIUM  
CHLORIDE

No data available.

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s)**  
BENZALKONIUM  
CHLORIDE

No data available.

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**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s)**

BENZALKONIUM  
CHLORIDE No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**

BENZALKONIUM  
CHLORIDE No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**

BENZALKONIUM  
CHLORIDE No data available.

**Aspiration Hazard**

**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**

BENZALKONIUM  
CHLORIDE No data available.

**SECTION 12 : ECOLOGICAL INFORMATION**

**General information:**

Contains a substance which causes risk of hazardous effects to the environment. This material has not been tested for environmental effects.

**12.1 Toxicity**

**Acute toxicity**

**Fish**

**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**

BENZALKONIUM  
CHLORIDE No data available.

**Aquatic Invertebrates**

**Product:** Based on available data, the classification criteria are not met.

**Specified substance(s)**

BENZALKONIUM  
CHLORIDE EC 50 (Daphnia magna, 48.0 h): 0.016000 mg/l

**Chronic Toxicity**

**Fish**

**Product:** No data available.

**Specified substance(s)**

BENZALKONIUM  
CHLORIDE No data available.

**MILTON ANTIBACTERIAL SURFACE SPRAY - EN****Aquatic Invertebrates****Product:** No data.**Specified substance(s)**BENZALKONIUM  
CHLORIDE NOEC (Daphnia magna, 21.0 d): 0.004150 mg/l (Static renewal)**Toxicity to Aquatic Plants****Product:** Based on available data, the classification criteria are not met.**Specified substance(s)**BENZALKONIUM  
CHLORIDE No data available.**12.2 Persistence and Degradability****Biodegradation****Product:** The surfactant(s) contained in this mixture comply with biodegradability criteria as laid down in regulations (EC) No 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the member state. The other components of this mixture are either environmentally inert or absorbed onto sewage and sediment etc or will biodegrade to substances which are likely to be of low environmental impact when the mixture is used as directed.**Specified substance(s)**BENZALKONIUM  
CHLORIDE No data available.**BOD/COD Ratio****Product:** No data available.**Specified substance(s)**BENZALKONIUM  
CHLORIDE No data available.**12.3 Bioaccumulative potential****Product:** The product is not bioaccumulating.**Specified substance(s)**BENZALKONIUM  
CHLORIDE No data available.**12.4 Mobility in soil:**

No data available.

**Known or predicted distribution to environmental compartments**BENZALKONIUM  
CHLORIDE No data available.**12.5 Results of PBT and vPvB****assessment:** Based on available data, the classification criteria are not met.BENZALKONIUM  
CHLORIDE No data available.**12.6 Other adverse effects:**

Harmful to aquatic life with long lasting effects.

**12.7 Additional Information:**

No data available.

**SECTION 13 : DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**



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- General information:** Dispose of contents/container in accordance with local requirements for domestic waste disposal.
- Disposal methods:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**SECTION 14 : TRANSPORT INFORMATION**

**ADR**

Not regulated.

**ADN**

Not regulated.

**RID**

Not regulated.

**IMDG**

Not regulated.

**IATA**

Not regulated.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** not applicable

**SECTION 15 : REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**EU Regulations**

**Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer:** none

**Regulation (EC) No. 850/2004 on persistent organic pollutants:** none

**Regulation (EC) No. 689/2008 Import and export of dangerous chemicals:** none

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:** none

**Regulation (EC) No. 1907/2006, REACH, Annex XVII Substances subject to restriction on marketing and use:** none

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:** none

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:** none

**Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:** none

**EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:** none

**Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:** none

**15.2 Chemical safety assessment:**

No Chemical Safety Assessment has been carried out.

**International regulations**

**Montreal protocol**

**Stockholm convention**

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**Rotterdam convention**

**Kyoto protocol**

**SECTION 16 : OTHER INFORMATION**

**Revision Information:** Not relevant.

**References**

PBT PBT: persistent, bioaccumulative and toxic substance.  
vPvB vPvB: very persistent and very bioaccumulative substance.

**Key literature references and sources for data:** No data available.

**Wording of the H-statements in section 2 and 3**

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

**Training information:** No data available.

**Classification according to Regulation (EC) No 1272/2008 as amended.**

Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
Aquatic Chronic 3, H412

**DetNet Classification** Not relevant.

**Logging Number:**

**Issue Date:** 04.05.2017

**SDS No.:**

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.