

## KLEENEX® Antibacterial Hand Cleanser

Version	Revision Date:	MSDS Number:	Date of last issue: 14.06.2016
1.3	23.02.2017	100000005349	Date of first issue: 21.04.2016

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : KLEENEX® Antibacterial Hand Cleanser  
Product code : 6336

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

Use of the Sub-stance/Mixture : Hand Sanitizer

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

Company : Kimberly-Clark Europe Limited  
40 London Road  
Reigate  
Surrey RH2 9QP  
United Kingdom  
Telephone : +44 1737 736000  
Telefax : +44 1737 736670  
E-mail address Responsible/issuing person : sdscontact@kcc.com

#### 1.4 Emergency telephone number

: +44 1865 407333  
This telephone number is available 24 hours per day, 7 days per week.

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

## KLEENEX® Antibacterial Hand Cleanser

Version 1.3      Revision Date: 23.02.2017      MSDS Number: 100000005349      Date of last issue: 14.06.2016  
Date of first issue: 21.04.2016

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
No hazards resulting from the material as supplied.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Myristamine oxide	3332-27-2 222-059-3	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1
didecyldimethylammonium chloride	7173-51-5 230-525-2	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Chronic 1; H410	>= 0.25 - < 1
D-gluconic acid, compound with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1)	18472-51-0 242-354-0	Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : No hazards which require special first aid measures.  
If inhaled : No hazards which require special first aid measures.  
In case of skin contact : No hazards which require special first aid measures.  
In case of eye contact : Flush eyes with water as a precaution.

## KLEENEX® Antibacterial Hand Cleanser

Version	Revision Date:	MSDS Number:	Date of last issue: 14.06.2016
1.3	23.02.2017	100000005349	Date of first issue: 21.04.2016

---

If swallowed : Do NOT induce vomiting.

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

Symptoms : No hazards which require special first aid measures.

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

Treatment : No hazards which require special first aid measures.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Product contains a high percentage of water.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Material can create slippery conditions.

### 6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

## KLEENEX® Antibacterial Hand Cleanser

Version	Revision Date:	MSDS Number:	Date of last issue: 14.06.2016
1.3	23.02.2017	100000005349	Date of first issue: 21.04.2016

---

Advice on safe handling : No special handling advice required.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place.

Advice on common storage : No special restrictions on storage with other products.

Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Skin-care

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Not required under normal use.

Skin and body protection : Not required under normal use.

Respiratory protection : No personal respiratory protective equipment normally required.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

pH : 6.0

Flash point : does not flash

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : similar to water

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## KLEENEX® Antibacterial Hand Cleanser

Version	Revision Date:	MSDS Number:	Date of last issue: 14.06.2016
1.3	23.02.2017	100000005349	Date of first issue: 21.04.2016

---

Relative density : similar to water

Solubility(ies)  
Water solubility : completely soluble

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

### 10.4 Conditions to avoid

Conditions to avoid : No information available.

### 10.5 Incompatible materials

Materials to avoid : None.

### 10.6 Hazardous decomposition products

Stable under recommended storage conditions.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Components:

#### **Myristamine oxide:**

Acute oral toxicity : LD50 Oral (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

#### **didecyldimethylammonium chloride:**

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg  
Method: Converted acute toxicity point estimate

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## KLEENEX® Antibacterial Hand Cleanser

Version	Revision Date:	MSDS Number:	Date of last issue: 14.06.2016
1.3	23.02.2017	100000005349	Date of first issue: 21.04.2016

---

### **D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1):**

Acute oral toxicity : LD50 (Rat, male): 2,270 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg  
Method: see user defined free text  
GLP: No information available.

### **Skin corrosion/irritation**

#### **Product:**

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

#### **Components:**

##### **Myristamine oxide:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Skin irritation  
GLP: yes

##### **didecyldimethylammonium chloride:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Corrosive  
GLP: yes

### **D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1):**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: yes

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

#### **Components:**

##### **Myristamine oxide:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Corrosive

## KLEENEX® Antibacterial Hand Cleanser

Version	Revision Date:	MSDS Number:	Date of last issue: 14.06.2016
1.3	23.02.2017	100000005349	Date of first issue: 21.04.2016

---

GLP: yes

### **didecyldimethylammonium chloride:**

Species: Rabbit  
Result: Eye irritation  
GLP: no

### **D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1):**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Risk of serious damage to eyes.  
GLP: no

### **Respiratory or skin sensitisation**

#### **Product:**

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

#### **Components:**

##### **Myristamine oxide:**

Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Did not cause sensitisation on laboratory animals.  
GLP: yes

##### **didecyldimethylammonium chloride:**

Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Did not cause sensitisation on laboratory animals.  
GLP: yes

##### **D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1):**

Test Type: Maximisation Test  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Did not cause sensitisation on laboratory animals.  
GLP: no

### **Germ cell mutagenicity**

#### **Product:**

Germ cell mutagenicity- Assessment : Contains no ingredient listed as a mutagen

## KLEENEX® Antibacterial Hand Cleanser

Version	Revision Date:	MSDS Number:	Date of last issue: 14.06.2016
1.3	23.02.2017	100000005349	Date of first issue: 21.04.2016

---

### Carcinogenicity

**Product:**

Carcinogenicity - Assessment : Contains no ingredient listed as a carcinogen

### Reproductive toxicity

**Product:**

Reproductive toxicity - Assessment : Contains no ingredient listed as toxic to reproduction

### STOT - single exposure

**Product:**

Remarks: No data available

### STOT - repeated exposure

**Product:**

Remarks: No data available

### Aspiration toxicity

**Product:**

No aspiration toxicity classification

### Further information

**Product:**

Remarks: The product contains no substances which at their given concentration, are considered to be hazardous to health.

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish : Remarks: No information available.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No information available.

Toxicity to algae : Remarks: No information available.

**Components:**

**Myristamine oxide:**

Toxicity to fish : LC50 (Fish): 10.3 mg/l



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## KLEENEX® Antibacterial Hand Cleanser

Version	Revision Date:	MSDS Number:	Date of last issue: 14.06.2016
1.3	23.02.2017	100000005349	Date of first issue: 21.04.2016

---

Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 11.1 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: no

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (algae)): 0.81 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: no

Toxicity to fish (Chronic toxicity) : NOEC: 0.495 mg/l  
Exposure time: 15 d  
GLP: no

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.7 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
GLP: no

### didecyldimethylammonium chloride:

#### Ecotoxicology Assessment

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1):

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 2.08 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.087 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae : EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): 0.081 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Acute aquatic toxicity) : 10

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## KLEENEX® Antibacterial Hand Cleanser

Version	Revision Date:	MSDS Number:	Date of last issue: 14.06.2016
1.3	23.02.2017	100000005349	Date of first issue: 21.04.2016

---

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.0206 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

### 12.2 Persistence and degradability

**Product:**

Biodegradability : Remarks: No information available.

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No information available.

**Components:**

**Myristamine oxide:**

Partition coefficient: n-octanol/water : log Pow: 0.95 - 2.7

**didecyldimethylammonium chloride:**

Partition coefficient: n-octanol/water : log Pow: 0.38

**D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediamidine (2:1):**

Partition coefficient: n-octanol/water : log Pow: 1.58

### 12.4 Mobility in soil

**Product:**

Mobility : Remarks: No information available.

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

**Product:**

## KLEENEX® Antibacterial Hand Cleanser

Version	Revision Date:	MSDS Number:	Date of last issue: 14.06.2016
1.3	23.02.2017	100000005349	Date of first issue: 21.04.2016

---

Additional ecological information : Harmful to aquatic life with long lasting effects.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : Dispose of contents/ container to an approved waste disposal plant.

Contaminated packaging : Dispose of as unused product.  
Do not re-use empty containers.

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### SECTION 14: Transport information

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## KLEENEX® Antibacterial Hand Cleanser

Version	Revision Date:	MSDS Number:	Date of last issue: 14.06.2016
1.3	23.02.2017	100000005349	Date of first issue: 21.04.2016

---

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

### The components of this product are reported in the following inventories:

REACH : This mixture contains only ingredients which have been subject to a pre-registration according to Regulation (EC) No. 1907/2006 (REACH).

### 15.2 Chemical safety assessment

No information available.

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## SECTION 16: Other information

### Full text of H-Statements

H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Acute aquatic toxicity  
Aquatic Chronic : Chronic aquatic toxicity  
Eye Dam. : Serious eye damage  
Skin Corr. : Skin corrosion  
Skin Irrit. : Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Develop-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## KLEENEX® Antibacterial Hand Cleanser

Version	Revision Date:	MSDS Number:	Date of last issue: 14.06.2016
1.3	23.02.2017	100000005349	Date of first issue: 21.04.2016

---

ment; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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