

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

KLEENEX® Gel Hand Sanitizer

Version	Revision Date:	MSDS Number:	Date of last issue: 06.03.2017
1.4	15.03.2017	100000002838	Date of first issue: 16.04.2015

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

1.1 Product identifier

Trade name : KLEENEX® Gel Hand Sanitizer
Product code : 6380, 6381, 6382, 6383

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

Use of the Sub-stance/Mixture : Biocidal product

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.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
Response:
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.
Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.
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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Tetradecanol	112-72-1 204-000-3	Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2.5
Substances with a workplace exposure limit :			
Ethanol	64-17-5	Flam. Liq. 2; H225	>= 70 - < 90

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	200-578-6	Eye Irrit. 2; H319	
Glycerol	56-81-5 200-289-5		>= 1 - < 10

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.
When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : No hazards which require special first aid measures.
- In case of skin contact : Not required under normal use.
- In case of eye contact : If in eyes, rinse with water for 15 minutes.
If eye irritation persists, consult a specialist.
- If swallowed : Do NOT induce vomiting.
Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : Water spray jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Highly flammable liquid and vapour.
- Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Advice for firefighters

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

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for firefighters

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.
Remove all sources of ignition.

6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Shovel into suitable container for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : No special precautions required.

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

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.

7.3 Specific end use(s)

Specific use(s) : Biocidal product

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m ³	GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
Glycerol	56-81-5	TWA (Mist)	10 mg/m ³	GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			

8.2 Exposure controls

Personal protective equipment

Eye protection : Not required under normal use.

Hand protection
Remarks : not required under normal use

Skin and body protection : Not required under normal use.

Respiratory protection : No personal respiratory protective equipment normally required.

Protective measures : No special protective equipment required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : gel

Colour : colourless

Odour : alcohol-like

pH : 7.5 - 8.5

Melting point/range : < -20 °C

Boiling point/boiling range : 85 °C

Flash point : 14 °C

Upper explosion limit : 15 %(V)

Lower explosion limit : 3.5 %(V)

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Density : 0.833 - 0.843 g/cm³

Solubility(ies)
Water solubility : partly miscible

Auto-ignition temperature : > 425 °C

Viscosity
Viscosity, dynamic : 250 mPa.s

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Hazardous reactions : Keep away from oxidizing agents, and acidic or alkaline products.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Components:

Tetradecanol:

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Ethanol:

Acute oral toxicity : LD50 (Rat, male and female): 10,470 mg/kg
Method: OECD Test Guideline 401
GLP: no

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Acute inhalation toxicity : LC50 (Rat, male and female): 124.7 mg/l
Method: OECD Test Guideline 403
GLP: no

Glycerol:

Acute oral toxicity : LD50 Oral (Mouse, male): 23,000 mg/kg
Method: Acute toxicity estimate
GLP: no

Acute inhalation toxicity : LC50 (Rat, male): > 2.75 mg/l
Method: Acute toxicity estimate
GLP: no

Acute dermal toxicity : LD50 Dermal (Guinea pig, male and female): 56,750 mg/kg
Method: Acute toxicity estimate
GLP: no

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

Components:

Tetradecanol:

Result: No skin irritation

Ethanol:

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

Glycerol:

Species: Rabbit
Method: No information available.
Result: No skin irritation
GLP: no

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Result: Irritating to eyes.

Components:

Tetradecanol:

Species: Rabbit

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Result: Eye irritation

Ethanol:

Species: Rabbit
Method: OECD Test Guideline 405
Result: Eye irritation
GLP: no

Glycerol:

Species: Rabbit
Assessment: No eye irritation
Method: No information available.
Result: No eye irritation
GLP: no

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

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

Components:

Tetradecanol:

Result: Did not cause sensitisation on laboratory animals.

Ethanol:

Species: Mouse
Assessment: Does not cause skin sensitisation.
Method: OECD Test Guideline 429
Result: Did not cause sensitisation on laboratory animals.
GLP: no

Glycerol:

Test Type: Draize Test
Exposure routes: Dermal
Species: Humans
Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components:

Glycerol:

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Genotoxicity in vitro : Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Glycerol:

Species: Rat, (male and female)
Application Route: Oral
Exposure time: 24 month(s)
Frequency of Treatment: 1 daily

Reproductive toxicity

Not classified based on available information.

Components:

Glycerol:

Effects on foetal development : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 2000 milligram per kilogram
Frequency of Treatment: 1 daily

STOT - single exposure

Not classified based on available information.

Product:

Remarks: Not applicable

STOT - repeated exposure

Not classified based on available information.

Product:

Remarks: Not applicable

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

SECTION 12: Ecological information

12.1 Toxicity

Components:

Tetradecanol:

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Toxicity to fish : LC50 : 1 mg/l
Exposure time: 96 h
Remarks: Aquatic toxicity is unlikely due to low solubility.

Toxicity to daphnia and other aquatic invertebrates : EC50 : 3.2 mg/l
Exposure time: 48 h
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.0016 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
GLP: yes

Ethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 14,200 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): 5,012 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 275 mg/l
Exposure time: 72 h
Test Type: static test

Glycerol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l
Exposure time: 96 h
Test Type: static test
Method: No information available.
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,955 mg/l
Exposure time: 48 h
Test Type: static test
Method: No information available.
GLP: no

12.2 Persistence and degradability

Components:

Glycerol:

Biodegradability : Result: Readily biodegradable

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12.3 Bioaccumulative potential

Components:

Tetradecanol:

Partition coefficient: n-
octanol/water : log Pow: 5.5

12.4 Mobility in soil

No data 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

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

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

SECTION 14: Transport information

14.1 UN number

ADR : UN 1987

IMDG : UN 1987

IATA : UN 1987

14.2 UN proper shipping name

ADR : ALCOHOLS, N.O.S.
(Ethanol)

IMDG : ALCOHOLS, N.O.S.
(Ethanol)

IATA : Alcohols, n.o.s.
(Ethanol)

14.3 Transport hazard class(es)

ADR : 3

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IMDG : 3

IATA : 3

14.4 Packing group

ADR

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3
Tunnel restriction code : (D/E)

IMDG

Packing group : II
Labels : 3
EmS Code : F-E, S-D

IATA

Packing instruction (cargo aircraft) : 364
Packing instruction (LQ) : Y341
Packing group : II
Labels : Flammable Liquids

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

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.

SECTION 15: Regulatory information

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

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

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5,000 t	50,000 t
34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams), (d) heavy fuel oils	2,500 t	25,000 t

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Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 80.8 %, 825.61 g/l
Volatile CMR compounds: 0 %
Remarks: VOC content excluding water

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 80.8 %, 681.18 g/l
Volatile CMR compounds: 0 %
Remarks: VOC content valid only for coating materials used on wood surfaces

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).

CH INV : This polymer contains monomers listed on the Swiss Inventory.

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapour.
H319 : Causes serious eye irritation.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Acute : Acute aquatic toxicity
Aquatic Chronic : Chronic aquatic toxicity
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids

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

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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 Development; 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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