

## PALMOLIVE ANTIBACTERIAL DISHWASHING HAND LIQUID ORANGE

*This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.*

Version	Revision Date:	SDS Number:	Date of last issue: 12/07/2018
1.2	12/07/2018	660000007510	Date of first issue: 12/07/2018

### SECTION 1. IDENTIFICATION

Product name : PALMOLIVE ANTIBACTERIAL DISHWASHING HAND  
LIQUID ORANGE  
B02941120026  
Product code : 200000057462

#### Manufacturer or supplier's details

Company name of supplier : Colgate-Palmolive Co  
300 Park Avenue  
New York, NY 10022

Telephone : US: Consumer Affairs - 1-800-468-6502

Emergency telephone number : For emergencies involving spill, leak, fire, exposure or accident call CHEMTREC (24hr) at (800) 424-9300 or (703) 527-3887.

Global-CHEMTREC- +1 703-741-5970

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

Recommended use : dishwashing liquid

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids : Category 3

Skin irritation : Category 2

Serious eye damage : Category 1

#### GHS label elements

Hazard pictograms :



Signal word : Danger

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Hazard statements : H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### **Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### **Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

### **Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

### **Other hazards**

None known.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

### **Components**

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Chemical name	CAS-No.	Concentration (% w/w)
C10-16 ALCOHOL EO SODIUM SULFATE	68585-34-2	$\geq 10 - < 20$
3-Lauroylamidopropyl betaine	4292-10-8	$\geq 1 - < 5$
SODIUM DODECYL BENZENE SULFONATE (LINEAR)	25155-30-0	$\geq 3 - < 5$
ETHANOL (ETHYL ALCOHOL)	64-17-5	$\geq 1 - < 5$
Lactic acid	79-33-4	$\geq 1 - < 3$
SODIUM XYLENE SULFONATE	1300-72-7	$\geq 1 - < 5$
METHANOL	67-56-1	$\geq 0.1 - < 1$

### SECTION 4. FIRST AID MEASURES

General advice	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	: Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
Most important symptoms and effects, both acute and delayed	: Causes skin irritation. Causes serious eye damage.

### SECTION 5. FIREFIGHTING MEASURES

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- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Neutralize with chalk, alkali solution or ammonia.  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

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Keep away from open flames, hot surfaces and sources of ignition.

- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : No smoking.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Do not store near acids.
- Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ETHANOL (ETHYL ALCOHOL)	64-17-5	STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA Z-1
		TWA	1,000 ppm	OSHA P0

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			1,900 mg/m3	
METHANOL	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-1
		STEL	250 ppm 325 mg/m3	OSHA P0
		TWA	200 ppm 260 mg/m3	OSHA P0

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam-pling time	Permissible concentra-tion	Basis
METHANOL	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

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### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Colour	: orange
pH	: 3.25
Flash point	: 136 °F / 58 °C
Density	: 1.049 g/cm3

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

Not classified based on available information.

#### **Product:**

Acute oral toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate: 148.34 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

#### **Components:**

#### **C10-16 ALCOHOL EO SODIUM SULFATE:**

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg Method: No information available.
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Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

### **3-Lauroylamidopropyl betaine:**

Acute oral toxicity : LD50 (Rat): 2,335 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402

### **SODIUM DODECYL BENZENE SULFONATE (LINEAR):**

Acute oral toxicity : LD50 (Rat): 1,080 - 1,980 mg/kg  
Method: No information available.

Acute inhalation toxicity : Remarks: No data available

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

### **ETHANOL (ETHYL ALCOHOL):**

Acute oral toxicity : LD50 (Rat): 10,470 mg/kg

Acute inhalation toxicity : LC50 (Rabbit): 124.7 mg/l  
Exposure time: 4 h  
Test atmosphere: No information available.  
Method: No information available.

Acute dermal toxicity : LD50 (Rat): > 15,800 mg/kg  
Method: No information available.

### **Lactic acid:**

Acute oral toxicity : LD50 (Rat): 3,730 mg/kg

Acute inhalation toxicity : LC50 (Rat): 7.94 mg/l  
Exposure time: 4 h  
Test atmosphere: No information available.  
Method: No information available.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: No information available.

### **SODIUM XYLENE SULFONATE:**

Acute oral toxicity : LD50 (Rat): > 7,000 mg/kg



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Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rabbit): > 6.41 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: No information available.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402

**METHANOL:**

Acute oral toxicity : LD50: 100 mg/kg  
Method: Acute toxicity estimate

Acute inhalation toxicity : LC50: 3 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Converted acute toxicity point estimate

Acute dermal toxicity : LD50: 300 mg/kg  
Method: Converted acute toxicity point estimate

**Skin corrosion/irritation**

Causes skin irritation.

**Components:****C10-16 ALCOHOL EO SODIUM SULFATE:**

Result : Severe skin irritation

Remarks : May cause skin irritation in susceptible persons.

**3-Lauroylamidopropyl betaine:**

Result : Skin irritation

**SODIUM DODECYL BENZENE SULFONATE (LINEAR):**

Result : Irritating to skin.

**ETHANOL (ETHYL ALCOHOL):**

Result : No skin irritation

**Lactic acid:**

Assessment : Causes severe burns.

**SODIUM XYLENE SULFONATE:**

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Result : Mild skin irritation

### **METHANOL:**

Result : No skin irritation

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

Causes serious eye damage.

### **Components:**

#### **C10-16 ALCOHOL EO SODIUM SULFATE:**

Result : Irritation to eyes, reversing within 21 days

Remarks : May cause irreversible eye damage.

#### **3-Lauroylamidopropyl betaine:**

Result : Moderate eye irritation

#### **SODIUM DODECYL BENZENE SULFONATE (LINEAR):**

Result : Corrosive

#### **ETHANOL (ETHYL ALCOHOL):**

Species : Rabbit

Result : Moderate eye irritation

#### **Lactic acid:**

Result : Risk of serious damage to eyes.

#### **SODIUM XYLENE SULFONATE:**

Result : Irritation to eyes, reversing within 7 days

### **METHANOL:**

Result : No eye irritation

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

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### **Components:**

#### **C10-16 ALCOHOL EO SODIUM SULFATE:**

Exposure routes : Inhalation  
Remarks : No data available

Exposure routes : Dermal  
Remarks : No data available

#### **3-Lauroylamidopropyl betaine:**

Exposure routes : Inhalation  
Result : Does not cause respiratory sensitisation.

Exposure routes : Dermal  
Result : Does not cause skin sensitisation.

#### **SODIUM DODECYL BENZENE SULFONATE (LINEAR):**

Exposure routes : Inhalation  
Remarks : No data available

Exposure routes : Dermal  
Result : Does not cause skin sensitisation.

#### **ETHANOL (ETHYL ALCOHOL):**

Exposure routes : Inhalation  
Remarks : No data available

Exposure routes : Dermal  
Result : Does not cause skin sensitisation.

#### **Lactic acid:**

Exposure routes : Inhalation  
Result : Does not cause respiratory sensitisation.

Exposure routes : Dermal  
Result : Does not cause skin sensitisation.

#### **SODIUM XYLENE SULFONATE:**

Exposure routes : Inhalation  
Remarks : No data available

Exposure routes : Dermal  
Result : Does not cause skin sensitisation.

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### **METHANOL:**

Exposure routes : Inhalation  
Remarks : No data available

Exposure routes : Dermal  
Result : Does not cause skin sensitisation.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **IARC**

Group 1: Carcinogenic to humans This finished consumer product is not expected to exhibit carcinogenic effects. Exposure through ingestion of Ethanol (64-17-5) is not applicable to the intended use of this product.

ETHANOL (ETHYL 64-17-5  
ALCOHOL)

### **OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

### **NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **Components:**

#### **METHANOL:**

Target Organs : Eyes, Central nervous system  
Assessment : Causes damage to organs.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

### **Further information**

### **Product:**

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Remarks : This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 2 of the SDS.

### **SECTION 12. ECOLOGICAL INFORMATION**

The product has not been tested as a whole for environmental toxicity. However, environmental information on the ingredients in this product have been reviewed by the Environmental Occupational Health and Safety group of Colgate-Palmolive and determined to have an acceptable environmental profile. This evaluation is based on available information on individual ingredients, interactions of ingredients, and similar ingredients. Biodegradability claims are supported by data on ingredients (i.e., surfactants are biodegradable).

### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

### **SECTION 14. TRANSPORT INFORMATION**

DOT : Not regulated.  
(per 49 CFR 173.150(e)(2))

TDG :  
UN 1993, Flammable Liquid, N.O.S. (ETHANOL (ETHYL ALCOHOL), Methanol), 3, III

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<b>IATA</b>	:	UN 1993, Flammable Liquid, N.O.S. (ETHANOL (ETHYL ALCOHOL), Methanol),3, III
<b>IMDG</b>	:	UN 1993, Flammable Liquid, N.O.S. (ETHANOL (ETHYL ALCOHOL), Methanol),3, III
<b>ADR</b>	:	UN 1993, Flammable Liquid, N.O.S. (ETHANOL (ETHYL ALCOHOL), Methanol),3, III

### SECTION 15. REGULATORY INFORMATION

#### EPCRA - Emergency Planning and Community Right-to-Know Act

##### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
METHANOL	67-56-1	100	100 (F003)
SODIUM DODECYL BENZENE SULFONATE (LINEAR)	25155-30-0	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
SULFURIC ACID	7664-93-9	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

##### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Skin corrosion or irritation  
Serious eye damage or eye irritation  
Carcinogenicity

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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### **Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

ETHANOL (ETHYL ALCOHOL)	64-17-5
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### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

SODIUM DODECYL BENZENE SULFONATE (LINEAR)	25155-30-0
BUTYL ACETATE	123-86-4
ISOAMYL ACETATE	123-92-2
SULFURIC ACID	7664-93-9

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

SODIUM DODECYL BENZENE SULFONATE (LINEAR)	25155-30-0
BUTYL ACETATE	123-86-4
SULFURIC ACID	7664-93-9

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### **US State Regulations**

#### **Massachusetts Right To Know**

C10-16 ALCOHOL EO SODIUM SULFATE	68585-34-2
SODIUM DODECYL BENZENE SULFONATE (LINEAR)	25155-30-0
ETHANOL (ETHYL ALCOHOL)	64-17-5
SULFURIC ACID	7664-93-9

#### **Pennsylvania Right To Know**

WATER	7732-18-5
C10-16 ALCOHOL EO SODIUM SULFATE	68585-34-2
3-Lauroylamidopropyl betaine	4292-10-8
SODIUM DODECYL BENZENE SULFONATE (LINEAR)	25155-30-0
ETHANOL (ETHYL ALCOHOL)	64-17-5
METHANOL	67-56-1
SODIUM SULFATE	7757-82-6
BUTYL ACETATE	123-86-4

#### **Maine Chemicals of High Concern**

C10-16 ALCOHOL EO SODIUM SULFATE	68585-34-2
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### **Vermont Chemicals of High Concern**

C10-16 ALCOHOL EO SODIUM SULFATE 68585-34-2

### **Washington Chemicals of High Concern**

C10-16 ALCOHOL EO SODIUM SULFATE 68585-34-2

### **California Prop. 65**

WARNING: This product can expose you to chemicals including ETHANOL (ETHYL ALCOHOL), SULFURIC ACID, which is/are known to the State of California to cause cancer, and ETHANOL (ETHYL ALCOHOL), METHANOL, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### **California List of Hazardous Substances**

SODIUM DODECYL BENZENE SULFONATE (LINEAR) 25155-30-0

### **California Permissible Exposure Limits for Chemical Contaminants**

ETHANOL (ETHYL ALCOHOL) 64-17-5

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

TSCA : All ingredients in this product are listed on the TSCA Inventory or are not required to be listed on the TSCA Inventory.

### **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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## **SECTION 16. OTHER INFORMATION**

### **Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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;



## PALMOLIVE ANTIBACTERIAL DISHWASHING HAND LIQUID ORANGE

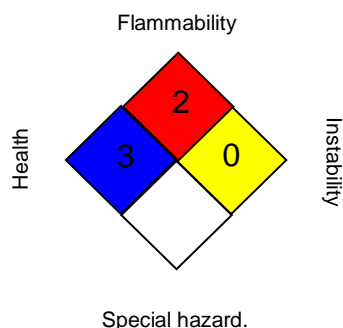
*This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.*

Version	Revision Date:	SDS Number:	Date of last issue: 12/07/2018
1.2	12/07/2018	660000007510	Date of first issue: 12/07/2018

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### NFPA:



#### HMIS® IV:

<b>HEALTH</b>	*	<b>3</b>
<b>FLAMMABILITY</b>		<b>2</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Revision Date : 12/07/2018  
US / EN