



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

Date issued 10.10.2011

### 1.1. Product identifier

Product name Antibac Hand Cleaner

Article no. 601710

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

Product group PT1  
Disinfectants

Use of the substance/preparation Hand sanitizer  
Human hygiene biocidal products  
Consumer use

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

#### Manufacturer

Company name Kemetyl Norge AS

Office address Delitoppen 3

Postal address P.O Box 204

Postcode NO-1541

City Vestby

Country Norway

Tel +47 64 98 00

Fax +47 64980801

E-mail firmapost@kemetyl.no

Website <http://www.kemetyl.com>

### 1.4. Emergency telephone number

Emergency telephone NHS Direct (UK):0845 4647 (24h/24h)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to 67/548/EEC or 1999/45/EC F; R11

### 2.2. Label elements

#### Hazard symbol



Highly flammable

R phrases R11 Highly flammable.

S phrases S2 Keep out of the reach of children.  
S7 Keep container tightly closed.  
S16 Keep away from sources of ignition - No smoking.  
S46 If swallowed, seek medical advice immediately and show this container or label.

	Use biocidal products safely. Always read the label and product information before use.
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Composition on the label	Ethanol: , 2-Propanol:
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### 2.3. Other hazards

Physicochemical effect	The vapors may form an explosive mixture with air. The vapors are heavier than air and may travel along ground to ignition sources.
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Other hazards	A PBT-/vPvB-assessment has not been performed for the mixture. The substances listed in section 3 do not meet the current criteria for PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative).
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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Component name	Identification	Classification	Contents
Ethanol	CAS no.: 64-17-5 EC no.: 200-578-6 Index no.: 603-002-00-5	F; R11 Flam. Liq. 2;H225	50 - 70 %
Propan-2-ol	CAS no.: 67-63-0 EC no.: 200-661-7 Index no.: 603-117-00-0	F; R11 Xi; R36 R67 STOT SE3;H336 Eye Irrit. 2;H319 Flam. Liq. 2;H225	5 - 15 %
2-Methylpropan-2-ol	CAS no.: 75-65-0 EC no.: 200-889-7 Index no.: 603-005-00-1	F; R11 Xn; R20 Xi; R36/37	< 1 %
Column headings	CAS no. = Chemical Abstracts Service; EU (Einecs or Elincs number) = European inventory of Existing Commercial Chemical Substances; Ingredient name = Name as specified in the substance list (substances that are not included in the substance list must be translated, if possible). Contents given in; %, %wt/wt, %vol/wt, %vol/vol, mg/m3, ppb, ppm, weight%, vol%		
HH/HF/HE	T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritating, E = Explosive, O = Oxidizing, F+ = Extremely flammable, F = Very flammable, N = Environmental hazard		
Description of the mixture	The remaining ingredients up to 100 % consist of non-classified components or of components in concentrations below the limit to be included in the calculation of hazard class.		
Component comments	The classification of the substances according to CLP has not been declared by the manufacturer. The substances are classified according to Annex VI of the CLP Regulation, (EC) No 1272/2008, current edition See section 16 for explanation of H- and R-phrases listed above.		

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	If in doubt, seek medical advice.
Inhalation	Fresh air and rest. Get medical attention if any discomfort continues.
Skin contact	The product is intended for skin contact. Contaminated clothing may pose a fire hazard and should be soaked in water and being removed. The clothing must be cleaned before reuse.
Eye contact	Immediately rinse with water for several minutes. Hold the eyelids apart. Remove any contact lenses. Contact physician if discomfort continues.
Ingestion	Drink a few glasses of water or milk. Do not induce vomiting. Get medical attention if any discomfort continues.

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

Acute symptoms and effects	Inhalation of high concentrations: may cause drowsiness, dizziness, headache, fatigue, nausea, vomiting, unconsciousness, intoxication. Skin contact: may cause defatting after frequent use. Eye Contact: transient eye irritation. Ingestion: irritation of mucous membranes, vomiting and diarrhea. May cause similar symptoms as by inhalation. Same as the acute symptoms.
Delayed symptoms and effects	Same as the acute symptoms.

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

Other Information	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Water spray, fog or mist. Alcohol resistant foam. Carbon dioxide or dry powder.
Improper extinguishing media	Do not use water jet.

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

Fire and explosion hazards	HIGHLY FLAMMABLE! Solvent vapours may form explosive mixtures with air. Vapours are heavier than air and may spread near ground to sources of ignition. Be aware of the risk of a flashback. Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).
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### 5.3. Advice for firefighters

Personal protective equipment	Self-contained breathing apparatus may be required by rescue workers.
Other Information	Containers close to fire should be removed immediately or cooled with water. Extinguishing water must not be discharged into drains.

## SECTION 6: Accidental release measures

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

General measures	Isolate the spill area.
Personal precautions	Remove all ignition sources and ventilate the area. Do not breathe vapour. Use protective equipment as referred to in section 8. In case of spills, beware of slippery floors and surfaces.

### 6.2. Environmental precautions

Environmental precautions	Prevent entry into drains due to fire and explosion hazard. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.
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### 6.3. Methods and material for containment and cleaning up

Methods for cleaning	Remove spillage with absorbent materials. Collect in a suitable container and dispose as hazardous waste according to section 13.
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### 6.4. Reference to other sections

Other instructions	See also sections 8 and 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling	Provide good ventilation. Avoid direct contact. Avoid inhalation of vapours. Do not smoke or use open fire or other sources of ignition. Take precautionary measures against static discharges. Provide electrical earthing of equipment and electrical equipment usable in explosive atmospheres. Use protective equipment as referred to in section 8.
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### 7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in accordance with regulations for flammable goods. Store in a tightly
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	closed container in a cool, well-ventilated room, protected from direct sunlight.
Special risks and properties	The vapours are heavier than air and will spread along the floor. The vapours may form explosive mixtures with air.
Packaging compatibilities	Store in original container.
Hints on storage assembly	Keep away from: Oxidising material.
Further information on storage conditions (UK)	Use appropriate containment to avoid environmental contamination

### 7.3. Specific end use(s)

Specific use(s)	See section 1.2.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure controls

#### Exposure limit values

Component name	Identification	Value	Year
Ethanol	CAS no.: 64-17-5	8 h.: 1000 ppm	2007
	EC no.: 200-578-6	8 h.: 1920 mg/m <sup>3</sup>	
	Index no.: 603-002-00-5		
Propan-2-ol	CAS no.: 67-63-0	8 h.: 400 ppm	2007
	EC no.: 200-661-7	8 h.: 999 mg/m <sup>3</sup>	
	Index no.: 603-117-00-0	15 min.: 500 ppm	
		15 min.: 1250 mg/m <sup>3</sup>	
2-Methylpropan-2-ol	CAS no.: 75-65-0	8 h.: 100 ppm	2007
	EC no.: 200-889-7	8 h.: 308 mg/m <sup>3</sup>	
	Index no.: 603-005-00-1	15 min.: 150 ppm	
		15 min.: 462 mg/m <sup>3</sup>	

#### Exposure limits

#### Biological limits

#### DNEL / PNEC

### 8.2. Exposure controls

Occupational exposure controls	Explosion-proof general and local exhaust ventilation. Eyewash facilities should be available at the workplace. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The listed protective equipment is a recommendation. A risk assessment of the actual risk may lead to other requirements. Do not eat, drink or smoke during work.
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#### Eye / face protection

Eye protection	Wear approved, tight fitting safety glasses where splashing is probable.
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#### Skin protection

Hand protection	The product is intended for skin contact.
Skin protection (other than of the hands)	Ordinary workwear.

#### Respiratory protection

Respiratory protection	In case of insufficient ventilation, wear a half or totally covering mask with brown gas filter (A) against organic solvents. Check that mask fits tight and change filter regularly.
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## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state	Clear liquid.
Odour	Characteristic. Odour of alcohol.
Colour	Colourless. Transparent.
Comments, pH (as supplied)	Not determined.
Melting point/melting range	<b>Value:</b> < 0 °C
Comments, Boiling point / boiling range	Not determined.
Flash point	<b>Value:</b> < 21 °C
Comments, Evaporation rate	Not determined.
Comments, Vapour pressure	Not determined.
Vapour density	<b>Value:</b> > 1 <b>Reference gas:</b> air = 1
Specific gravity	<b>Value:</b> 0,884 g/cm <sup>3</sup> (20 °C)
Solubility in water	Miscible.
Comments, Partition coefficient: n-octanol / water	Not relevant for mixtures.
Comments, Spontaneous combustability	Not determined.
Viscosity	<b>Value:</b> 85 cP (20 °C) <b>Method of testing:</b> Spindle 1, 10 rpm
Comments, Explosion limit	Not determined.
Oxidising properties	Not oxidising.

## 9.2. Other information

### Other physical and chemical properties

Comments	No further relevant information is available.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	No test data available. Vapors may form explosive mixtures with air.
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### 10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Can react violently with several oxidizing agents.
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### 10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition.
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### 10.5. Incompatible materials

Materials to avoid	Strong oxidising substances. Aluminium. Zink.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.
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## SECTION 11: Toxicological information

### Toxicological Information:

LD50 oral	<b>Value:</b> 7060 mg/kg <b>Test animal species:</b> rat <b>Comments:</b> Value for ethanol
LD50 oral	<b>Value:</b> 4710 mg/kg <b>Test animal species:</b> rat <b>Comments:</b> Value for 2-propanol

### Other information regarding health hazards

Inhalation	Vapours may cause drowsiness and dizziness. Solvent vapours are hazardous
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	and may cause nausea, sickness and headaches.
Skin contact	May be degreasing after frequent contact.
Eye contact	May cause temporary eye irritation.
Ingestion	May cause irritation of the mucous membranes, nausea, vomiting and diarrhoea. May give the same symptoms as by inhalation.
Aspiration hazard	Not classified regarding aspiration toxicity. The classification criteria are not met.
Sensitisation	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met. Ethanol is not regarded as a carcinogen, but cases are known after prolonged abuse.
Teratogenic properties	Based on available data, the classification criteria are not met. Ethanol is known or suspected to cause harm to the unborn child.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Other Information	The product does not meet the criteria for classification as hazardous or irritant.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Components' toxicological data

Component	Ethanol
Acute aquatic, fish	<b>Value:</b> 13,500 mg/l <b>Method of testing:</b> LC50 <b>Species:</b> Pimephales promelas <b>Duration:</b> 96h
Acute aquatic, algae	<b>Value:</b> > 10,9 mg/l <b>Method of testing:</b> IC50 <b>Species:</b> Skeletonema costatum <b>Duration:</b> 72h
Acute aquatic, Daphnia	<b>Value:</b> 5400 mg/l <b>Method of testing:</b> EC50 <b>Species:</b> Daphnia magna <b>Duration:</b> 48h
Persistence and degradability	Readily biodegradable.
Bioaccumulation	Log Pow: -0,32
Bioconcentration factor (BCF)	<b>Value:</b> 0,66
Component	2-Propanol
Acute aquatic, fish	<b>Value:</b> 4200 mg/l <b>Method of testing:</b> LC50 <b>Species:</b> Rasbora heteromorpha <b>Duration:</b> 96h
Acute aquatic, Daphnia	<b>Value:</b> 13299 mg/l <b>Method of testing:</b> EC50 <b>Species:</b> Daphnia magna <b>Duration:</b> 48h
Ecotoxicity, other effects	PNEC (Predicted No-Effect Concentration) for aquatic organisms: 1,4 mg/l
Persistence and degradability	Readily biodegradable.
Bioaccumulation	Log Pow: 2,97

#### Other ecological information

Ecotoxicity The product is not classified as dangerous for the environment.

### 12.2. Persistence and degradability

Persistence and degradability All organic components are considered biodegradable. The surfactants contained in this preparation meet the criteria for biodegradation of Regulation (EC) no. 648/2004 on detergents.

### 12.3. Bioaccumulative potential

Bioaccumulative potential None of the substances listed in section 3, are considered as bioaccumulative.

### 12.4. Mobility in soil

Mobility Miscible with water. The product evaporates easily from surfaces.

### 12.5. Results of PBT and vPvB assessment

PBT assessment results PBT / vPvB assessment not available as chemical safety assessment not is required / not is conducted for the substances in this product.

### 12.6. Other adverse effects

Other adverse effects / Remarks Do not allow to enter into sewer, water system or soil.

## SECTION 13: Disposal considerations

EWC waste code EWC: 07 07 04 other organicsolvents, washing liquids and mother liquors

Product classified as hazardous waste Yes

### 13.1. Waste treatment methods

Specify the appropriate methods of disposal Disposed of as hazardous waste by approved contractor. The waste code (EWC-Code) is intended as a guide. The code must be chosen by the user, if the use differs from the one mentioned above.

## SECTION 14: Transport information

### Land transport (ADR/RID/GGVSE)

Dangerous goods ADR  
 UN no.: 1987  
 Class: 3  
 Hazard no.: 33  
 Packing group: II  
 Proper shipping name: ALCOHOLS, N.O.S. (ethanol and 2-propanol)  
 Other applicable information.: Tunnel restriction code (D/E)

### Land transport (RID / GGVSE)

Dangerous goods RID  
 UN no.: 1987  
 Class: 3  
 Packing group: II  
 Proper shipping name: ALCOHOLS, N.O.S. (ethanol and 2-propanol)

### Sea transport (IMDG-Code/GGVSee)

Dangerous goods IMDG  
 UN no.: 1987  
 Class: 3  
 Packing group: II  
 IMDG Marine pollutant: No  
 EmS: F-E, S-D  
 Proper shipping name: ALCOHOLS, N.O.S. (ethanol and 2-propanol)  
 Other applicable information.: Fp < 21 °C C.c.

### Air transport (ICAO-IATA/DGR)

Dangerous goods ICAO/IATA  
 UN no.: 1987  
 Class: 3  
 Packing group: II  
 Proper shipping name: ALCOHOLS, N.O.S. (ethanol and 2-propanol)

### 14.6. Special precautions for user

Special precautions for user No information required.

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

Other applicable information. Not applicable.

## SECTION 15: Regulatory information

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

Other labelling requirements	Formulation type: liquid Content of technical material: 544 g/kg of ethanol and 100 g/kg of 2-propanol. PT1 Human hygiene biocidal products
References (laws/regulations)	CHIP Regulations. The Chemicals (Hazard Information and Packaging for Supply) Regulation. Regulation (EC) No 1907/2006 (REACH) Annex II: Safety data sheets. Occupational Exposure Limits. EH40/2010. The Hazardous Waste (England and Wales) Regulations 2005 with amendments. Dangerous Goods regulations Highly Flammable Liquid Regulations. Directive 98/8/EC of the European Parliament and of the Council of 16 February 1998 concerning the placing of biocidal products on the market. Council Directive 96/82/EC of 9 December 1996 on the control of major-accident hazards involving dangerous substances (Seveso II).  The Safety Data Sheet is based on information provided by the producer.

## 15.2. Chemical safety assessment

chemical safety assessment has been carried out	No
CSR required	No

## SECTION 16: Other information

List of relevant R phrases (under headings 2 and 3).	R11 Highly flammable. R36 Irritating to eyes. R67 Vapours may cause drowsiness and dizziness.
List of relevant H-phrases (Section 2 and 3).	H225 Highly flammable liquid and vapour. H319 Causes Serious eye irritation. H336 May cause drowsiness or dizziness.
List of relevant S-phrases (in section 3).	S16 Keep away from sources of ignition - No smoking. S2 Keep out of the reach of children. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S7 Keep container tightly closed.
Further information	Acronyms: PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
Information which has been added, deleted or revised	New Safety Data Sheet.
Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
Checking quality of information	This SDS is quality controlled by National Institute of Technology in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2008.
Responsible for safety data sheet	Kemetyl Norge AS
Prepared by	Teknologisk Institutt, Göteborg v/ Milvi Rohtla