

## SAFETY DATA SHEET

## AF Antibacterial Hygienic Hand Rub 500ML

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

1.1. Product identifier

Product name AF Antibacterial Hygienic Hand Rub 500ML

Product number ABHHR500\_6, ZA

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

**Identified uses** Cleaning agent.

**Uses advised against**No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier AF INTERNATIONAL. A division of HK WENTWORTH LTD

ASHBY PARK COALFIELD WAY ASHBY de la ZOUCH

LEICESTERSHIRE. LE65 1JR

UNITED KINGDOM +44 (0) 1530 419600 +44 (0) 1530 416640 info@hkw.co.uk

1.4. Emergency telephone number

Emergency telephone IN CASE OF EMERGENCY CALL:

+44 1865 407333 (24hr, Provided by Carechem 24)

+353 (0)1 809 2166 (Beaumont Hospital, Republic of Ireland only, 8am-10pm, 7 days a week)

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards Not Classified
Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H226 Flammable liquid and vapour.

Precautionary statements P102 Keep out of reach of children.

P501 Dispose of contents/ container in accordance with national regulations.

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Supplementary precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

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

#### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Ethanol 60-100%

CAS number: 64-17-5 EC number: 200-578-6 REACH registration number: 01-

2119457610-43-XXXX

Classification

Flam. Liq. 2 - H225

Glycerol 1-5%

CAS number: 56-81-5 EC number: 200-289-5

Classification

Not Classified

Propane-1,2-diol <1%

CAS number: 57-55-6 EC number: 200-338-0 REACH registration number: 01-

2119456809-23-XXXX

Classification

Not Classified

2-Methylpropan-2-ol <1%

CAS number: 75-65-0 EC number: 200-889-7

Classification

Flam. Liq. 2 - H225 Acute Tox. 4 - H332 Eye Irrit. 2 - H319

STOT SE 3 - H335

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Cyclohexane <1%

CAS number: 110-82-7 EC number: 203-806-2 REACH registration number: 01-

2119463273-41-XXXX

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

#### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General information If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical

personnel.

**Inhalation** Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms

are severe or persist.

Ingestion Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not

induce vomiting unless under the direction of medical personnel.

**Skin contact** No special treatment required.

Eye contact Rinse with water. Get medical attention if any discomfort continues.

**Protection of first aiders**First aid personnel should wear appropriate protective equipment during any rescue.

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

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

**Inhalation** No specific symptoms known.

**Ingestion** No specific symptoms known.

Skin contact Not a skin sensitiser.

**Eye contact** No specific symptoms known. May be slightly irritating to eyes.

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

#### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder

or water fog. Use fire-extinguishing media suitable for the surrounding fire.

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

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#### Specific hazards

Containers can burst violently or explode when heated, due to excessive pressure build-up. Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Fire-water run-off in sewers may create fire or explosion hazard.

## Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

#### 5.3. Advice for firefighters

# Protective actions during firefighting

Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

# Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

#### SECTION 6: Accidental release measures

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

#### Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated.

#### 6.2. Environmental precautions

**Environmental precautions** 

Avoid discharge into drains or watercourses or onto the ground.

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

#### Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Absorb small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

## 6.4. Reference to other sections

#### Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Usage precautions

Keep out of the reach of children. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not handle until all safety precautions have been read and understood. Do not reuse empty containers.

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Advice on general occupational hygiene

No specific requirements are anticipated under normal conditions of use.

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

Storage precautions Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep

away from oxidising materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect

containers from damage.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

#### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

#### Occupational exposure limits

#### **Ethanol**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

#### Glycerol

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ mist

#### Propane-1,2-diol

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

Long-term exposure limit (8-hour TWA): WEL 150 ppm 474 mg/m3 total vapour and particulates

#### 2-Methylpropan-2-ol

Long-term exposure limit (8-hour TWA): WEL 100 ppm 308 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 150 ppm 462 mg/m<sup>3</sup>

#### Cyclohexane

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m³ Short-term exposure limit (15-minute): WEL 300 ppm 1050 mg/m³

WEL = Workplace Exposure Limit

#### 8.2. Exposure controls

Appropriate engineering

controls

All handling should only take place in well-ventilated areas.

**Eye/face protection** Avoid contact with eyes. No specific eye protection required during normal use. Large

Spillages: Eyewear complying with an approved standard should be worn if a risk assessment

indicates eye contact is possible.

**Hand protection** Hand protection not required.

**Hygiene measures** No specific requirements are anticipated under normal conditions of use.

Respiratory protection No specific requirements are anticipated under normal conditions of use. No specific

recommendations. Large Spillages: If ventilation is inadequate, suitable respiratory protection

must be worn.

**Environmental exposure** 

controls

Keep container tightly sealed when not in use. Avoid release to the environment.

#### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

## AF Antibacterial Hygienic Hand Rub 500ML

**Appearance** Liquid.

Colour Colourless. Odour Alcoholic.

Odour threshold Not available.

pН pH (concentrated solution): 7-8

Melting point Not available. Initial boiling point and range Not available.

22°C Flash point

**Evaporation rate** Not available. Not available. **Evaporation factor** Flammability (solid, gas) Not available. Upper/lower flammability or

explosive limits

Not available.

Other flammability Not available. Vapour pressure Not available. Vapour density Not available.

Relative density 0.869-0.903 @ 20°C

**Bulk density** Not available. Solubility(ies) Not available. Partition coefficient Not available. **Auto-ignition temperature** Not available. **Decomposition Temperature** Not available.

Viscosity 4000 cSt @ 23°C

**Explosive properties** Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

#### 9.2. Other information

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the

prescribed storage conditions.

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous

The following materials may react strongly with the product: Oxidising agents.

reactions

## 10.4. Conditions to avoid

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Conditions to avoid Avoid heat, flames and other sources of ignition. Containers can burst violently or explode

when heated, due to excessive pressure build-up. Static electricity and formation of sparks

must be prevented.

10.5. Incompatible materials

Materials to avoid Oxidising materials. Acids - oxidising.

10.6. Hazardous decomposition products

Hazardous decomposition Does not decompose when used and stored as recommended. Thermal decomposition or

combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

products

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC50) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity

Contains a substance/a group of substances which may cause cancer. IARC Group 1

Carcinogenic to humans.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

Based on available data the classification criteria are not met.

development

Specific target organ toxicity - single exposure

**STOT - single exposure**Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

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General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

**Inhalation** No specific symptoms known.

**Ingestion** No specific symptoms known.

**Skin contact** No specific symptoms known.

Eye contact No specific symptoms known.

Route of exposure Ingestion Inhalation Skin and/or eye contact

**Target organs** No specific target organs known.

Toxicological information on ingredients.

Ethanol

**Toxicological effects** Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅o) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC50) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye

damage/irritation

Based on available data the classification criteria are not met.

Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

**IARC carcinogenicity** None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity -

fertility

Based on available data the classification criteria are not met.

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Reproductive toxicity -

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

**General information** The severity of the symptoms described will vary dependent on the concentration

and the length of exposure.

**Inhalation** No specific symptoms known.

**Ingestion** No specific symptoms known.

**Skin contact** No specific symptoms known.

**Eye contact** No specific symptoms known.

Route of exposure Ingestion Inhalation Skin and/or eye contact

**Target organs** No specific target organs known.

Glycerol

**Toxicological effects** Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD50) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅o) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC50) Based on available data the classification criteria are not met.

Skin corrosion/irritation

**Animal data**Based on available data the classification criteria are not met.

Serious eye damage/irritation

**Serious eye** Based on available data the classification criteria are not met.

damage/irritation

Respiratory sensitisation

Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Respiratory sensitisation

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

Carcinogenicity

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**Carcinogenicity** Based on available data the classification criteria are not met.

**IARC carcinogenicity** None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity -

fertility

Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

**Aspiration hazard** 

**Aspiration hazard**Based on available data the classification criteria are not met.

General information No specific health hazards known. The severity of the symptoms described will vary

dependent on the concentration and the length of exposure.

**Inhalation** No specific symptoms known. Spray/mists may cause respiratory tract irritation.

**Ingestion** No specific symptoms known. May cause discomfort if swallowed.

**Skin contact** No specific symptoms known. May cause discomfort.

**Eye contact** No specific symptoms known. May be slightly irritating to eyes.

Route of exposure Ingestion Inhalation Skin and/or eye contact

**Target organs** No specific target organs known.

Propane-1,2-diol

**Toxicological effects** Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) Based on available data the classification criteria are not met.

Skin corrosion/irritation

**Animal data**Based on available data the classification criteria are not met.

Serious eye damage/irritation

**Serious eye** Based on available data the classification criteria are not met.

damage/irritation

Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

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Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

**IARC carcinogenicity**None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity -

Based on available data the classification criteria are not met.

fertility

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

General information No specific health hazards known. The severity of the symptoms described will vary

dependent on the concentration and the length of exposure.

Inhalation No specific symptoms known. Spray/mists may cause respiratory tract irritation.

**Ingestion** No specific symptoms known. May cause discomfort if swallowed.

**Skin contact** No specific symptoms known. May cause discomfort.

Eye contact No specific symptoms known. May be slightly irritating to eyes.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Target organs No specific target organs known.

2-Methylpropan-2-ol

Acute toxicity - oral

Notes (oral LD50) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) Acute Tox. 4 - H332 Harmful if inhaled.

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

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Serious eye Causes se

damage/irritation

Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

**Skin sensitisation**Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

**IARC carcinogenicity**None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity -

fertility

Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

**STOT - single exposure** STOT SE 3 - H335 May cause respiratory irritation.

Target organs Respiratory system, lungs

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

**General information** The severity of the symptoms described will vary dependent on the concentration

and the length of exposure.

**Inhalation** A single exposure may cause the following adverse effects: Headache. Exhaustion

and weakness.

**Ingestion** No specific symptoms known.

**Skin contact** No specific symptoms known.

Eye contact Irritating to eyes.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Target organs Respiratory system, lungs

2-Amino-2-methylpropanol

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - dermal

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Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Irritating

Serious eye damage/irritation

Serious eye Causes serious eye irritation.

damage/irritation

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

**Skin sensitisation**Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

**IARC carcinogenicity** None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity -

fertility

Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

**General information** The severity of the symptoms described will vary dependent on the concentration

and the length of exposure.

**Inhalation** No specific symptoms known.

**Ingestion** May cause irritation.

**Skin contact** Redness. Irritating to skin.

Eye contact Irritating to eyes.

Route of exposure Ingestion Inhalation Skin and/or eye contact

**Target organs** No specific target organs known.

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#### Cyclohexane

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅o) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Irritating.

Serious eye damage/irritation

Serious eye Based on available data the classification criteria are not met.

damage/irritation

Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

**IARC carcinogenicity** None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - Based on available data the classification criteria are not met.

fertility

**Reproductive toxicity -** Based on available data the classification criteria are not met.

development

Specific target organ toxicity - single exposure

**STOT - single exposure** STOT SE 3 - H336 May cause drowsiness or dizziness.

Target organs Central nervous system

Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways. Pneumonia may

be the result if vomited material containing solvents reaches the lungs.

General information The severity of the symptoms described will vary dependent on the concentration

and the length of exposure.

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**Inhalation** A single exposure may cause the following adverse effects: Headache. Nausea,

vomiting. Central nervous system depression. Drowsiness, dizziness,

disorientation, vertigo. Narcotic effect.

Ingestion May cause irritation. Aspiration hazard if swallowed. Entry into the lungs following

ingestion or vomiting may cause chemical pneumonitis.

**Skin contact** Redness. Irritating to skin.

Eye contact No specific symptoms known.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Target organs Central nervous system

#### SECTION 12: Ecological information

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills may have

hazardous effects on the environment.

#### Ecological information on ingredients.

#### **Ethanol**

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills

may have hazardous effects on the environment.

Glycerol

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills

may have hazardous effects on the environment.

Propane-1,2-diol

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills

may have hazardous effects on the environment.

2-Methylpropan-2-ol

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills

may have hazardous effects on the environment.

12.1. Toxicity

**Toxicity** Based on available data the classification criteria are not met.

#### Ecological information on ingredients.

#### **Ethanol**

**Toxicity** Based on available data the classification criteria are not met.

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

LC<sub>50</sub>, 48 hours: 5012 mg/l, Ceriodaphnia dubia

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 11.5 mg/l, Chlorella vulgaris

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Chronic aquatic toxicity

Chronic toxicity - aquatic

invertebrates

NOEC, 9 days: 9.6 mg/l, Daphnia magna

Glycerol

**Toxicity** Based on available data the classification criteria are not met.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 54000 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

plants

EC₅o, 72 hours: >2900 mg/l, Freshwater algae

Propane-1,2-diol

**Toxicity** Based on available data the classification criteria are not met.

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 40613 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: >10000 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 96 hours: 19000 mg/l, Pseudokirchneriella subcapitata

2-Methylpropan-2-ol

**Toxicity** Based on available data the classification criteria are not met.

2-Amino-2-methylpropanol

**Toxicity** Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

Cyclohexane

Toxicity Aquatic Acute 1 - H400 Very toxic to aquatic life. Aquatic Chronic 1 - H410 Very

toxic to aquatic life with long lasting effects.

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.1 < L(E)C50 \le 1$ 

M factor (Acute) 1

Acute toxicity - fish LC<sub>80</sub>, 4 days: 4.5 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC₅o, 2 days: 0.9 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 3 days: 9.317 mg/l, Selenastrum capricornutum

Chronic aquatic toxicity

M factor (Chronic) 1

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

## AF Antibacterial Hygienic Hand Rub 500ML

## Ecological information on ingredients.

**Ethanol** 

Persistence and degradability

The degradability of the product is not known.

Biodegradation

Water - Degradation 74%: 10 days

Chemical oxygen demand 1.99 g O<sub>2</sub>/g substance

Glycerol

Persistence and degradability

The degradability of the product is not known.

Propane-1,2-diol

Persistence and degradability

The degradability of the product is not known.

2-Methylpropan-2-ol

Persistence and degradability

The degradability of the product is not known.

2-Amino-2-methylpropanol

Persistence and degradability

The degradability of the product is not known.

Cyclohexane

Persistence and degradability

The degradability of the product is not known.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

Ecological information on ingredients.

**Ethanol** 

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient log Pow: -0.35

Glycerol

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient log Pow: -1.76

Propane-1,2-diol

Bioaccumulative potential No data available on bioaccumulation.

## AF Antibacterial Hygienic Hand Rub 500ML

2-Methylpropan-2-ol

Bioaccumulative potential No data available on bioaccumulation.

2-Amino-2-methylpropanol

Bioaccumulative potential No data available on bioaccumulation.

Cyclohexane

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient log Kow: 3.44

12.4. Mobility in soil

**Mobility** No data available.

Ecological information on ingredients.

Ethanol

**Mobility** No data available.

Surface tension 24.5 mN/m @ 20°C/68°F

Glycerol

Mobility No data available.

Propane-1,2-diol

Mobility No data available.

2-Methylpropan-2-ol

Mobility No data available.

2-Amino-2-methylpropanol

Mobility No data available.

Cyclohexane

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

**Ethanol** 

Results of PBT and vPvB This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

Glycerol

Results of PBT and vPvB This product does not contain any substances classified as PBT or vPvB.

assessment

## AF Antibacterial Hygienic Hand Rub 500ML

#### Propane-1,2-diol

**Results of PBT and vPvB** This product does not contain any substances classified as PBT or vPvB. assessment

#### 12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

**Ethanol** 

Other adverse effects None known.

Glycerol

Other adverse effects None known.

Propane-1,2-diol

Other adverse effects None known.

2-Methylpropan-2-ol

Other adverse effects None known.

2-Amino-2-methylpropanol

Other adverse effects None known.

Cyclohexane

Other adverse effects None known.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Reuse or recycle

products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product

residues and hence be potentially hazardous.

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

## SECTION 14: Transport information

#### 14.1. UN number

**UN No. (ADR/RID)** 1170

**UN No. (IMDG)** 1170

**UN No. (ICAO)** 1170

**UN No. (ADN)** 1170

## 14.2. UN proper shipping name

## AF Antibacterial Hygienic Hand Rub 500ML

Proper shipping name

ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

(ADR/RID)

Proper shipping name (IMDG) ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Proper shipping name (ICAO) ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Proper shipping name (ADN) ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

#### 14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group

IMDG packing group III

ICAO packing group

ADN packing group

## 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

Ш

No.

## 14.6. Special precautions for user

EmS F-E, S-D

ADR transport category 3

Emergency Action Code •2Y

Hazard Identification Number 30

(ADR/RID)

Tunnel restriction code (D/E)

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

#### SECTION 15: Regulatory information

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

## AF Antibacterial Hygienic Hand Rub 500ML

National regulations Health and Safety at Work etc. Act 1974 (as amended).

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment

Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EH40/2005 Workplace exposure limits.

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Commission Regulation (EU) No 453/2010 of 20 May 2010.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

Classification procedures according to Regulation (EC)

1272/2008

Training advice

SDS number

Flam. Liq. 2 - H225: : Expert judgement.

Read and follow manufacturer's recommendations.

**Issued by** Toni Ashford

Revision date 11/07/2019

Revision 1.2

Hazard statements in full H225 Highly flammable liquid and vapour.

3088

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.