

Amendment date 2019-06-26  
Replaces issued SDS 2018-10-17  
Revision date 2018-10-17  
Version number 2.1

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Trade name	Tork Alcohol Liquid Hand Sanitizer
Article number	420110, 511110, 880110, 590110

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

Identified uses	Main use category: Biocide Use of the substance/mixture: Cleansers Function or use category: Main group 1: Disinfectants - PT 1 Human hygiene
Uses that are advised against	Not indicated

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

Company	Essity Hygiene and Health AB (previously SCA Hygiene Products AB) SE-40503 Göteborg Sweden
Telephone	+46 (0)31 746 00 00 +44 1 582 677 400
E-mail	info@essity.com
Website	www.essity.com

### 1.4. Emergency telephone number

Acute cases: Call 112, request poison information.

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Flammable liquids (Category 2), H225  
Irritates eyes (Category 2), H319

## 2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazard statements

H225

Highly flammable liquid and vapour

H319

Causes serious eye irritation

Precautionary statements

P102

Keep out of reach of children

P210

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

P233

Keep container tightly closed

P337+P313

If eye irritation persists: Get medical advice/attention

P403+P235

Store in a well-ventilated place. Keep cool

P501

Dispose of contents and container to authorised waste disposal facility

## 2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
<b>ETHANOL</b>		
CAS No: 64-17-5 EC No: 200-578-6 Index No: 603-002-00-5 REACH: 01-2119457610-43	Flam Liq 2, Eye Irrit 2; H225, H319	>75 %
<b>PROPYLENE GLYCOL</b>		
CAS No: 57-55-6 EC No: 200-338-0 REACH: 01-2119456809-23		0.1 - 1 %
<b>GLYCEROL</b>		
CAS No: 56-81-5 EC No: 200-289-5		0.1 - 1 %
<b>DIETHYL PHTHALATE-</b>		
CAS No: 84-66-2 EC No: 201-550-6 REACH: 01-2119486682-27	Acute Tox 4vapour; H332	0.1 - 1 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### Generally

Never attempt to administer liquid, or anything else, to an unconscious person via the mouth.

#### Upon breathing in

Allow the injured person to rest in a warm place with fresh air, if symptoms persist seek medical attention.

#### **Upon eye contact**

Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor.

#### **Upon skin contact**

Remove contaminated clothes.

If discomfort occurs, immediately wash off with water. If skin irritation persists, consult a doctor.

#### **Upon ingestion**

First rinse the mouth thoroughly with plenty of water and SPIT OUT the rinsing water. Then drink at least half a litre of water and contact the doctor.

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

#### **Upon breathing in**

Breathing may cause headache, vertigo, weakness and sickness.

#### **Upon eye contact**

Irritation.

Smarting pain.

#### **Upon ingestion**

Indisposition, vomiting and diarrhoea.

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

Symptomatic treatment.

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **5.1. Extinguishing media**

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

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

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning.

Emits flammable vapours which may form an explosive mixture with air.

### **5.3. Advice for fire-fighters**

Protective measures should be taken regarding other material at the site of the fire.

In case of fire use a respirator mask.

Wear full protective clothing.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Use recommended safety equipment, see section 8.

Switch off equipment which has an exposed flame, glows, or has a heat source of some other kind.

Ensure good ventilation.

### **6.2. Environmental precautions**

Avoid release to drains, soil or watercourses.

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

Minor spillage should be wiped away or flushed away with water. Large quantities should be collected for incineration in accordance with the local regulations.

Residues left behind after cleaning shall be treated as hazardous waste. For further information, contact the local authority sanitisation works. Present this safety data sheet.

### **6.4. Reference to other sections**

See section 8 and 13 for personal protection equipment and disposal considerations.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Avoid open fire, hot items, sparks or other ignition sources.

Take precautionary measures against static discharge.

Store this product separately from food items and keep it out of the reach of children and pets.

Handle in premises with good ventilation.

Avoid direct inhalation of fumes from the product. Avoid contact with eyes.

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

Store in dry and cool area.

Always use sealed and visibly labeled packages.

Store in a well-ventilated space.

### 7.3. Specific end uses

See identified uses in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1. National limit values

##### ETHANOL

##### United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 1000 ppm / 1920 mg/m<sup>3</sup>

##### PROPYLENE GLYCOL

##### United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 10 mg/m<sup>3</sup> (Particulates) / 150 ppm (Total (vapour and particulates)) / 474 mg/m<sup>3</sup> (Total (vapour and particulates))

##### GLYCEROL

##### United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 10 mg/m<sup>3</sup>

##### DIETHYL PHTHALATE-

##### United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 5 mg/m<sup>3</sup>  
Short term exposure limit (STEL) 10 mg/m<sup>3</sup>

##### DNEL ETHANOL

	Type of exposure	Route of exposure	Value
Worker	Acute Local	Inhalation	1900 mg/m <sup>3</sup>
Consumer	Chronic Systemic	Inhalation	114 mg/m <sup>3</sup>
Worker	Chronic Systemic	Dermal	343 mg/kg
Worker	Chronic Systemic	Inhalation	950 mg/m <sup>3</sup>
Consumer	Acute Local	Inhalation	950 mg/m <sup>3</sup>
Consumer	Acute Local	Dermal	950 mg/m <sup>3</sup>
Consumer	Chronic Systemic	Oral	87 mg/kg
Consumer	Chronic Systemic	Dermal	206 mg/kg

## GLYCEROL

	Type of exposure	Route of exposure	Value
Consumer	Chronic Systemic	Inhalation	33 mg/m <sup>3</sup>
Worker	Chronic Systemic	Inhalation	56 mg/kg
Consumer	Chronic Systemic	Oral	229 mg/kg

## PNEC ETHANOL

Environmental protection target	PNEC value
Fresh water	0.96 mg/l
Freshwater sediments	3.6 mg/kg
Marine water	0.79 mg/l
Marine sediments	2.9 mg/kg
Microorganisms in sewage treatment	580 mg/l
Soil (agricultural)	0.63 mg/kg

## GLYCEROL

Environmental protection target	PNEC value
Fresh water	0.885 mg/l
Freshwater sediments	3.3 mg/kg
Marine water	0.885 mg/l
Marine sediments	0.33 mg/kg
Microorganisms in sewage treatment	1000 mg/l
Soil (agricultural)	0.141 mg/kg

## 8.2. Exposure controls

In terms of minimizing risks, attention must be paid to the physical hazards (see Sections 2 and 10) of this product according to EU directives 89/391 and 98/24 and national occupational legislation.

### 8.2.1. Appropriate engineering controls

Handle in premises with good ventilation.

### Eye/face protection

Eye protection should be worn if there is any danger of direct exposure or splashing.

### Skin protection

Not relevant.

### Respiratory protection

Use proper protective breathing equipment in case of insufficient ventilation.

A breathing mask of the A filter (brown) type, may be required.

### 8.2.3. Environmental exposure controls

For limitation of environmental exposure, see Section 12.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

a) Appearance	Form: liquid. Colour: colourless.
b) Odour	like alcohol
c) Odour threshold	Not indicated
d) pH	4.8
e) Melting point/freezing point	<0 °C
f) Initial boiling point and boiling range	78 °C
g) Flash point	<23 °C
h) Evaporation rate	Not indicated
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Lower explosion limit 3.4% Upper explosion limit 19%
k) Vapour pressure	23 hPa
l) Vapour density	>1 Air = 1
m) Relative density	0.84 g/cm <sup>3</sup>
n) Solubility	Solubility in water: Soluble
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	>272 °C
q) Decomposition temperature	Not indicated
r) Viscosity	12000 mm <sup>2</sup> /s
s) Explosive properties	Not applicable
t) Oxidising properties	Not applicable

### 9.2. Other information

No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

### 10.2. Chemical stability

The product is stable at normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

No hazardous reactions known.

### 10.4. Conditions to avoid

Avoid heat, sparks and open flames.

### 10.5. Incompatible materials

Avoid contact with strong oxidizing agents.

### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Not indicated.

#### Acute toxicity

Not classified as an acutely toxic substance.

#### ETHANOL

LD50 rabbit 24h: > 20000 mg/kg Dermally

LC50 rat 4h: 124.7 mg/l Inhalation

LD50 rat 10h: 38 mg/liter Inhalation

LD50 rat 10h: 2000 ppm Inhalation

LD50 rat 24h: 7060 mg/kg Orally

#### PROPYLENE GLYCOL

LD50 rabbit 24h: > 10000 mg/kg Dermally

LD50 rat 24h: 1 - 34000 mg/kg Orally

## GLYCEROL

LD50 rabbit 24h: > 18700 mg/kg Dermal

LD50 rat 24h: 12600 mg/kg Orally

### Skin corrosion/irritation

No skin irritation has been detected in the event of normal use.

### Serious eye damage/irritation

Eye contact may cause burning pain or irritation.

### Respiratory or skin sensitisation

Not sensitising.

### Germ cell mutagenicity

The criteria for classification cannot be considered fulfilled based on available data.

### Carcinogenicity

The criteria for classification cannot be considered fulfilled based on available data.

### Reproductive toxicity

The criteria for classification cannot be considered fulfilled based on available data.

### STOT-single exposure

The criteria for classification cannot be considered fulfilled based on available data.

### STOT-repeated exposure

The criteria for classification cannot be considered fulfilled based on available data.

### Aspiration hazard

The product is not classified as being toxic for aspiration.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

No ecological damage is known or expected in the event of normal use.

### ETHANOL

LC50 Rainbow trout (*Oncorhynchus mykiss*) 96h: 1 - 16 g/l

LC50 fathead minnow (*Pimephales promelas*) 96h: > 100 mg/l

LC50 Freshwater water flea (*Daphnia magna*) 48h: 12340 mg/l

EC50 Freshwater water flea (*Daphnia magna*) 48h: 1 - 14221 mg/l

### PROPYLENE GLYCOL

LC50 Rainbow trout (*Oncorhynchus mykiss*) 96h: 40613 mg/l

EC50 Freshwater water flea (*Daphnia magna*) 96 h: 1 - 34400 mg/L

EC50 Freshwater water flea (*Daphnia magna*) 48 h: 43500 mg/l

LC50 Fish 96h: 1 - 54600 mg/L

NOEC Fish 168h: 98 mg/l

### GLYCEROL

LC50 Rainbow trout (*Oncorhynchus mykiss*) 96h: > 500 mg/l

LC50 fathead minnow (*Pimephales promelas*) 96h: > 100 mg/l

LC50 Ide (*Leuciscus idus*) 96h: > 2900 mg/l

EC50 Freshwater water flea (*Daphnia magna*) 48 h: > 10000 mg/l

### 12.2. Persistence and degradability

The surfactants used in this product comply with the criteria for biodegradability under Regulation 648/2004.

### 12.3. Bioaccumulative potential

This product or some of its ingredients accumulate in nature.

### 12.4. Mobility in soil

The product is miscible with water and is therefore variable in soil and water.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6. Other adverse effects

No known effects or hazards.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### Waste handling of the product

- Discarded products must be disposed of as hazardous waste in accordance with regulations.
- Not completely emptied packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely emptied packaging can be recycled.
- Observe local regulations.
- Avoid discharge into sewers.
- See also national waste regulations.

## SECTION 14: TRANSPORT INFORMATION

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

### 14.1. UN number

1170

### 14.2. UN proper shipping name

ETHANOL SOLUTION

### 14.3. Transport hazard class(es)

#### Class

3: Flammable liquids

#### Classification code (ADR/RID)

F1: Flammable liquids having a flash-point of or below 60 °C

#### Subsidiary risk (IMDG)

No subsidiary risk according to IMDG

#### Labels



### 14.4. Packing group

Packing group II

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

#### Tunnel restrictions

Tunnel category: D/E

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

### 14.8 Other transport information

- Transport category: 2; Highest total quantity per transported unit 333 kg or liters
- Stowage category A (IMDG)
- Emergency Schedule (EmS) for FIRE (IMDG) F-E
- Emergency Schedule (EmS) for SPILLAGE (IMDG) S-D
- Limited quantities (LQ):
  - 1 L.
  - Excepted quantities, code E2:
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml.



## SECTION 15: REGULATORY INFORMATION

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

Not indicated.

### 15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

## SECTION 16: OTHER INFORMATION

### 16a. Indication of where changes have been made to the previous version of the safety data sheet

#### Revisions of this document

Earlier versions

2018-10-17 Changes in section(s) 1.

### 16b. Legend to abbreviations and acronyms used in the safety data sheet

#### Full texts for Hazard Class and Category Code mentioned in section 3

Flam Liq 2	Flammable liquids (Category 2)
Eye Irrit 2	Irritates eyes (Category 2)
Acute Tox 4vapour	Acute toxicity (Category 4 vapours)

#### Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by Road

RID Regulations concerning the International Transport of Dangerous Goods by Rail

IMDG International Maritime Dangerous Goods Code

ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)

IATA The International Air Transport Association

Tunnel restriction code: D/E; Transport by bulk or via tank: Passage forbidden through tunnels of category D and E, Other transportation means: Passage forbidden through tunnels of category E

Transport category: 2; Highest total quantity per transported unit 333 kg or liters

### 16c. Key literature references and sources for data

#### Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2019-06-26.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

#### Full texts for Regulations mentioned in this Safety Data Sheet

- 1907/2006 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- 2015/830 COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- 1272/2008 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- EH40/2005 EH40/2005 Workplace exposure limits
- 89/391 COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work
- 98/24 COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)
- 648/2004 REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents
- 1907/2006 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

#### 16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

#### 16e. List of relevant hazard statements and/or precautionary statements

##### Full texts for hazard statements mentioned in section 3

- H225 Highly flammable liquid and vapour  
H319 Causes serious eye irritation  
H332 Harmful if inhaled

#### 16f. Advice on any training appropriate for workers to ensure protection of human health and the environment

##### Warning for misuse

This product can cause injuries if not used properly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with its intended use.

#### Other relevant information

Not indicated

#### Editorial information



This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, [www.kemrisk.se](http://www.kemrisk.se)