

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

1.1. Product identifier

Product form : Mixture
 Product name : Tork Alcohol Gel Hand Sanitizer
 Product code : 420103, 520103, 511103, 590103

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

1.2.1. Relevant identified uses

Main use category : Biocide
 Use of the substance/mixture : Skin cleansers
 Function or use category : Main group 1: Disinfectants - PT 1 Human hygiene

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

SCA Hygiene Products
 Bäckstensg 5
 SE-405 03 GOTHENBURG - SWEDEN
Andrea.Kiellarson@sca.com - www.sca.com

1.4. Emergency telephone number

Emergency number : +46317460000
 (business hours)
 112 (24 hour service) – applicable to EU countries only

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225
 Eye Irrit. 2 H319

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

Not regarded as a health or environmental hazard under current legislation. Product does not present any health risks, when used as recommended.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour
 H319 - Causes serious eye irritation

Precautionary statements (CLP) :

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
 P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂), water spray, sand, earth to extinguish
 P501 - Dispose of contents/container to appropriate waste handling in accordance with local regulations.

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Ethanol -	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5 (REACH-no) 01-2119457610-43	> 75	F; R11
1,2-Propylene glycol -	(CAS No) 57-55-6 (EC no) 200-338-0 (REACH-no) 01-2119456809-23	0,1 - 1	Not classified
Glycerin-	(CAS No) 56-81-5 (EC no) 200-289-5 (REACH-no) not available	0,1 - 1	Not classified
Diethyl phthalate-	(CAS No) 84-66-2 (EC no) 201-550-6 (REACH-no) 01-2119486682-27	0,1 - 1	Xn; R20

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethanol -	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5 (REACH-no) 01-2119457610-43	> 75	Flam. Liq. 2, H225 Eye Irrit. 2, H319
1,2-Propylene glycol -	(CAS No) 57-55-6 (EC no) 200-338-0 (REACH-no) 01-2119456809-23	0,1 - 1	Not classified
Glycerin-	(CAS No) 56-81-5 (EC no) 200-289-5 (REACH-no) not available	0,1 - 1	Not classified
Diethyl phthalate-	(CAS No) 84-66-2 (EC no) 201-550-6 (REACH-no) 01-2119486682-27	0,1 - 1	Acute Tox. 4 (Inhalation), H332

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove victim to fresh air. In case of breathing difficulties administer oxygen. If exposure symptoms persist, seek medical advice.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately and plentifully with water, also under the eyelids, for at least 20 minutes. If eye irritation persists: Get medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Drink two glasses of water.

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

Symptoms/injuries after inhalation	: May cause headache and dizziness.
Symptoms/injuries after skin contact	: May cause skin dryness or cracking.
Symptoms/injuries after eye contact	: Symptoms include stinging, watering, redness, and swelling.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Powder. Foam. Carbon dioxide (CO ₂). dry chemical powder. Water fog.
Unsuitable extinguishing media	: No data available.

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5.2. Special hazards arising from the substance or mixture

- Fire hazard : Highly flammable.
Explosion hazard : May form flammable/explosive vapour-air mixture.
Hazardous decomposition products in case of fire : Toxic gases and fumes may be released in a fire. carbon oxides (CO and CO₂).

5.3. Advice for firefighters

- Firefighting instructions : Fight fire from safe distance and protected location.
Protective equipment for firefighters : Extra personal protection: complete protective clothing including self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Refer to section 8.
Emergency procedures : Evacuate unnecessary personnel. Keep upwind.

6.1.2. For emergency responders

- Protective equipment : Refer to section 8.
Emergency procedures : Keep upwind of the spilled material and isolate exposure. Eliminate all ignition sources if safe to do so. Eliminate leaks immediately.

6.2. Environmental precautions

Prevent product from entering drains. Relevant water authorities should be notified of any large spillage to water course or drain.

6.3. Methods and material for containment and cleaning up

- For containment : Ventilate affected area. Contain and/or absorb spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container.
Methods for cleaning up : Small spillages: wipe away or flush away with water. Large spills: Depending on the local regulations it may be disposed of as solid waste or incinerated in a suitable installation.

6.4. Reference to other sections

refer to section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : In use, may form flammable vapour-air mixture. Residue may be flammable and explosive.
Precautions for safe handling : Use only in well-ventilated areas. Avoid contact with skin and eyes. If spilled, may cause the floor to be slippery. This material can accumulate static charge by flow or agitation and can be ignited by static discharge. In order to rule out potential electrostatic discharge production, the system must be adequately grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container closed when not in use. Do not re-use empty containers.
Hygiene measures : Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product. Wash contaminated clothing prior to re-use. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in tightly closed, leak-proof containers. Avoid high temperatures. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Store in a well-ventilated place. Keep cool.
Storage temperature : < 35 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethanol - (64-17-5)		
Austria	MAK (mg/m ³)	1900 mg/m ³
Austria	MAK (ppm)	1000 ppm
Austria	MAK Short time value (mg/m ³)	3800 mg/m ³
Austria	MAK Short time value (ppm)	2000 ppm
Belgium	Limit value (mg/m ³)	1907 mg/m ³
Belgium	Limit value (ppm)	1000 ppm
Bulgaria	OEL TWA (mg/m ³)	1000 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	1000 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	530 ppm

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Ethanol - (64-17-5)		
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	3000 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	1590 ppm
Denmark	Grænseværdie (langvarig) (mg/m ³)	1900 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	1000 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	3800 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	2000 ppm
Estonia	OEL TWA (mg/m ³)	1000 mg/m ³
Estonia	OEL TWA (ppm)	500 ppm
Estonia	OEL STEL (mg/m ³)	1900 mg/m ³
Estonia	OEL STEL (ppm)	1000 ppm
Finland	HTP-arvo (8h) (mg/m ³)	1900 mg/m ³
Finland	HTP-arvo (8h) (ppm)	1000 ppm
Finland	HTP-arvo (15 min)	2500 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	1300 ppm
France	VME (mg/m ³)	1900 mg/m ³
France	VME (ppm)	1000 ppm
France	VLE (mg/m ³)	9500 mg/m ³
France	VLE (ppm)	5000 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	960 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	500 ppm
Greece	OEL TWA (mg/m ³)	1900 mg/m ³
Greece	OEL TWA (ppm)	1000 ppm
Hungary	AK-érték	1900 mg/m ³
Hungary	CK-érték	7600 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	1900 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	1000 ppm
Ireland	OEL (15 min ref) (ppm)	1000 ppm
Latvia	OEL TWA (mg/m ³)	1000 mg/m ³
Lithuania	IPRV (mg/m ³)	1000 mg/m ³
Lithuania	IPRV (ppm)	500 ppm
Lithuania	TPRV (mg/m ³)	1900 mg/m ³
Lithuania	TPRV (ppm)	1000 ppm
Lithuania	NRV (mg/m ³)	1900 mg/m ³
Lithuania	NRV (ppm)	1000 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	260 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	1900 mg/m ³
Poland	NDS (mg/m ³)	1900 mg/m ³
Portugal	OEL TWA (ppm)	1000 ppm
Romania	OEL TWA (mg/m ³)	1900 mg/m ³
Romania	OEL TWA (ppm)	1000 ppm
Romania	OEL STEL (mg/m ³)	9500 mg/m ³
Romania	OEL STEL (ppm)	5000 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	960 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	500 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	1920 mg/m ³
Slovakia	Upozornenie (SK)	krátkodobý kategória II.
Slovenia	OEL TWA (mg/m ³)	1900 mg/m ³
Slovenia	OEL TWA (ppm)	1000 ppm
Slovenia	OEL STEL (mg/m ³)	7600 mg/m ³
Slovenia	OEL STEL (ppm)	4000 ppm

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Ethanol - (64-17-5)		
Spain	VLA-ED (mg/m ³)	1910 mg/m ³
Spain	VLA-ED (ppm)	1000 ppm
Spain	VLA-EC (mg/m ³)	1910 mg/m ³
Spain	VLA-EC (ppm)	1000 ppm
Sweden	nivågränsvärde (NVG) (mg/m ³)	1000 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	500 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	1900 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	1000 ppm
United Kingdom	WEL TWA (mg/m ³)	1920 mg/m ³
United Kingdom	WEL TWA (ppm)	1000 ppm
United Kingdom	WEL STEL (mg/m ³)	5760 mg/m ³ (calculated)
United Kingdom	WEL STEL (ppm)	3000 ppm (calculated)
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	950 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	500 ppm
Norway	Gjennomsnittsverdier (Kortidsverdi) (mg/m ³)	1187,5 mg/m ³
Norway	Gjennomsnittsverdier (Kortidsverdi) (ppm)	625 ppm
Switzerland	Local name	Ethanoll (DE, FR); Etanolo (IT)
Switzerland	VME (mg/m ³)	960 mg/m ³
Switzerland	VME (ppm)	500 ppm
Switzerland	VLE (mg/m ³)	1920 mg/m ³
Switzerland	VLE (ppm)	1000 ppm
Switzerland	Remark (CH)	OELs Limit Values at the Workplace (SUVA 2014): TWA is: 500 ppm/960 mg/m ³ ; STEL is: 1000ppm/1920 mg/m ³ . SUVA Codes: Group C (The fetus will not be harmed if the MAK value is complied with).
Australia	TWA (mg/m ³)	1920 mg/m ³
Australia	TWA (ppm)	1000 ppm
Canada (Quebec)	VEMP (mg/m ³)	1880 mg/m ³
Canada (Quebec)	VEMP (ppm)	1000 ppm
USA - ACGIH	ACGIH TWA (mg/m ³)	1884 mg/m ³
USA - ACGIH	ACGIH TWA (ppm)	1000 ppm
USA - ACGIH	ACGIH STEL (ppm)	1000 ppm
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	1900 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

1,2-Propylene glycol - (57-55-6)		
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	150 ppm
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	150 ppm
Latvia	OEL TWA (mg/m ³)	7 mg/m ³
Lithuania	IPRV (mg/m ³)	7 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³
United Kingdom	WEL TWA (ppm)	150 ppm
United Kingdom	WEL STEL (mg/m ³)	30 mg/m ³
United Kingdom	WEL STEL (ppm)	450 ppm
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	79 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	25 ppm
Norway	Gjennomsnittsverdier (Kortidsverdi) (mg/m ³)	118,5 mg/m ³
Norway	Gjennomsnittsverdier (Kortidsverdi) (ppm)	37,5 ppm
Australia	TWA (mg/m ³)	10 mg/m ³
Australia	TWA (ppm)	150 ppm

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Glycerin- (56-81-5)		
Belgium	Limit value (mg/m ³)	10 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	10 mg/m ³
Estonia	OEL TWA (mg/m ³)	10 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	20 mg/m ³
France	VME (mg/m ³)	10 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	50 mg/m ³
Greece	OEL TWA (mg/m ³)	10 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³
Poland	NDS (mg/m ³)	10 mg/m ³
Portugal	OEL TWA (mg/m ³)	10 mg/m ³
Spain	VLA-ED (mg/m ³)	10 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	30 mg/m ³ (calculated)
Switzerland	VME (mg/m ³)	50 mg/m ³
Switzerland	VLE (mg/m ³)	100 mg/m ³
Australia	TWA (mg/m ³)	10 mg/m ³ (containing no asbestos and <1% crystalline silica)
Canada (Quebec)	VEMP (mg/m ³)	10 mg/m ³
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³

Diethyl phthalate- (84-66-2)		
Austria	MAK (mg/m ³)	3 mg/m ³
Austria	MAK Short time value (mg/m ³)	5 mg/m ³
Belgium	Limit value (mg/m ³)	5 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	5,0 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	5 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	3 mg/m ³
Estonia	OEL TWA (mg/m ³)	3 mg/m ³
Estonia	OEL STEL (mg/m ³)	5 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	5 mg/m ³
Finland	HTP-arvo (15 min)	10 mg/m ³
France	VME (mg/m ³)	5 mg/m ³
Greece	OEL TWA (mg/m ³)	5 mg/m ³
Greece	OEL STEL (mg/m ³)	10 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	5 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	10 mg/m ³
Latvia	OEL TWA (mg/m ³)	0,5 mg/m ³
Lithuania	IPRV (mg/m ³)	3 mg/m ³
Lithuania	TPRV (mg/m ³)	5 mg/m ³
Poland	NDS (mg/m ³)	5 mg/m ³
Poland	NDSch (mg/m ³)	15 mg/m ³
Portugal	OEL TWA (mg/m ³)	5 mg/m ³
Slovenia	OEL TWA (mg/m ³)	3 mg/m ³
Spain	VLA-ED (mg/m ³)	5 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	3 mg/m ³
Sweden	kortidsvärde (KTV) (mg/m ³)	5 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	5 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	10 mg/m ³
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	3 mg/m ³
Norway	Gjennomsnittsverdier (Korttidsverdi) (mg/m ³)	6 mg/m ³
Switzerland	VME (mg/m ³)	5 mg/m ³

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Diethyl phthalate- (84-66-2)		
Australia	TWA (mg/m ³)	5 mg/m ³
Canada (Quebec)	VEMP (mg/m ³)	5 mg/m ³
USA - ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³

8.2. Exposure controls

Appropriate engineering controls : not applicable.
Personal protective equipment : Protective goggles.



Hand protection : Not required for normal conditions of use.
Eye protection : Not required for normal conditions of use. Where contact with eyes or skin is likely, wear suitable protection.
Respiratory protection : Approved organic vapour respirator.
Environmental exposure controls : not applicable.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear, colorless liquid.
Colour : colourless to yellow.
odour : alcohol odour.
Odour threshold : No data available
pH : 6,5
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : < 0 °C
Freezing point : No data available
Boiling point : 78 °C
Flash point : < 23 °C
Auto-ignition temperature : > 244 °C
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Vapour pressure at 50 °C : 23 hPa
Relative vapour density at 20 °C : > 1 (air=1)
Relative density : 0,84 g/cm³
Solubility : soluble in water.
Log Pow : No data available
Viscosity, kinematic : 12000 mm²/s
Viscosity, dynamic : No data available
Explosive properties : Not explosive as none of the components is classified as explosive or oxidizing.
Oxidising properties : not oxidizing.
Explosive limits : 3,4 vol % (ethanol)
19 vol % (ethanol)

9.2. Other information

Other properties : Flammable liquid. Foam.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

No information available.

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10.4. Conditions to avoid

Do not expose to heat.

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified
The mixture classification has been derived from the classification of the single components.
Not known or expected to be harmful to health in normal use.

TORK Alcohol Gel Hand Sanitizer	
LD50 oral rat	> 5000 mg/l ATE > 2000 mg/kgbw
LD50 dermal rat	> 5000 mg/kg bodyweight ATE > 2000 mg/kgbw
LC50 inhalation rat (mg/l)	> 10 ATE: > 5 mg/l

Ethanol - (64-17-5)	
LD50 oral rat	10470 mg/kg
LC50 inhalation rat (mg/l)	117 - 125 mg/l

Skin corrosion/irritation : Not classified
Not irritating
pH: 6,5

Serious eye damage/irritation : Causes serious eye irritation.
pH: 6,5

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

TORK Alcohol Gel Hand Sanitizer	
Viscosity, kinematic	12000 mm ² /s

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Ecological problems are not known or expected under normal use.

TORK Alcohol Gel Hand Sanitizer	
LC50 fishes 1	908 mg/l
EC50 other aquatic organisms 1	1546 mg/l water flea

Ethanol - (64-17-5)	
LC50 fishes 1	> 14200 mg/l 96 hours
EC50 Daphnia 1	5012 mg/l 48 hours
EC50 Daphnia 2	454 mg/l 9 days
ErC50 (algae)	275 mg/l
ErC50 (other aquatic plants)	4432 mg/l
NOEC (acute)	9,6 mg/l 9 days

12.2. Persistence and degradability

TORK Alcohol Gel Hand Sanitizer	
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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12.3. Bioaccumulative potential

TORK Alcohol Gel Hand Sanitizer	
BCF fish 1	<
Bioaccumulative potential	Contains constituents with the potential to bioaccumulate.

12.4. Mobility in soil

TORK Alcohol Gel Hand Sanitizer	
Ecology - soil	If product enters soil, it will be mobile and may contaminate groundwater.

12.5. Results of PBT and vPvB assessment

Component	
Ethanol - (64-17-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Glycerin- (56-81-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Dispose of contents/container to comply with applicable local, national and international regulations.
Additional information	: Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: 1170
UN-No. (IMDG)	: 1170
UN-No.(IATA)	: 1170
UN-No.(ADN)	: Not applicable
UN-No. (RID)	: Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Proper Shipping Name (IMDG)	: ETHANOL (ETHYL ALCOHOL)
Proper Shipping Name (IATA)	: ETHANOL SOLUTION
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 3
Hazard labels (ADR)	: 3



IMDG

Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3



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IATA

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3



ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3



14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : Not applicable
Packing group (RID) : III

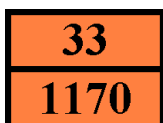
14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 144, 601
Limited quantities (ADR) : 1L
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001, IBC02, R001
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP1
Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Operation (ADR) : S2, S20
Hazard identification number (Kemler No.) : 33
Orange plates :



Tunnel restriction code (ADR) : D/E
EAC code : •2YE

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14.6.2. Transport by sea

Special provisions (IMDG) : 144
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
EmS-No (IMDG) : F-E, S-D

14.6.3. Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y341
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 353
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3, A58, A180
ERG code (IATA) : 3L

14.6.4. Inland waterway transport

Not subject to ADN : No

14.6.5. Rail transport

Classification code (RID) : F1
Carriage prohibited (RID) : No

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

IBC code : not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
Contains no substance on the REACH candidate list

15.1.2. National regulations

Germany

Water hazard class (WGK) : nwg - non-hazardous to water
WGK remark : No water pollutant (Classification based on the R-phrases in compliance with Verwaltungsvorschrift wassergefährdender)
Storage class (LGK) : LGK 3A - Flammable liquid materials (Flashpoint < 55 °C)
VbF class : A I - Liquids with a flashpoint below 21°C

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Sources of Key data : MSDS.
Abbreviations and acronyms : ACGIH (American Conference of Government Industrial Hygienists). ASTM - American Society for Testing and Materials . CAS - Chemical Abstracts Service. CLP - Classification, Labelling and Packaging. CSR - Chemical Safety Report. EC - European Community. EEC - European Economic Community. GHS - Globally Harmonised System. HCS - Hazard Communication Standard. MSDS - Material Safety Data Sheet. REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals. Overland transport (ADR). SDS - Safety Data Sheet . PVC (Polyvinyl chloride).

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	flammable liquids Category 2
H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H332	Harmful if inhaled
R11	Highly flammable

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R20	Harmful by inhalation
F	Highly flammable
Xn	Harmful

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product