



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

UNIGLOVES Hygienetücher Lemon Fresh

Version number: GHS 1.1

Date of compilation: 2016-04-20

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

1.1 Product identifier

Trade name **UNIGLOVES Hygienetücher Lemon Fresh**
Registration number (REACH) not relevant (mixture)

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

Relevant identified uses ready to use alcohol soaked disinfection wipes
surface disinfection

1.3 Details of the supplier of the safety data sheet

Camp-Spich-Str. 71
53842 Troisdorf-Spich
Telephone: +492241/9323-0 Telefax:
e-mail: unigloves@unigloves.de
Website: www.unigloves.de

1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Telefax	Opening hours
Toxicological Information of L.C. UNIGLOVES			+492241/9323-0		Mon - Fri 09:00 - 17:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Cat-egory	Hazard class and category	Hazard state-ment
2.7	flammable solid	Cat. 1	(Flam. Sol. 1)	H228
3.3	serious eye damage/eye irritation	Cat. 2	(Eye Irrit. 2)	H319

Remarks

For full text of H-phrases: see SECTION 16. 2.2

Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP) Signal

word **Danger**

Pictograms

GHS02, GHS07



Hazard statements

H228 Flammable solid.
H319 Causes serious eye irritation.



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

UNIGLOVES Hygienetücher Lemon Fresh

Version number: GHS 1.1

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Precautionary statements Precautionary

statements - prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P280

Precautionary statements - response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.









SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms
ethanol	CAS No 64-17-5 EC No 200-578-6	25 - < 50	Flam. Liq. 2 / H225	
propan-2-ol	CAS No 67-63-0 EC No 200-661-7	10 - < 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	 
butanone	CAS No 78-93-3 EC No 201-159-0	< 1	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	 
didecyldimethylammonium chloride	CAS No 7173-51-5 EC No 230-525-2	< 1	Acute Tox. 3 / H301 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411	  

For full text of abbreviations: see SECTION 16.



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

UNIGLOVES Hygienetücher Lemon Fresh

Version number: GHS 1.1

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SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air. Seek medical advice.

Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Call a physician immediately.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Call a physician immediately.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water, foam, alcohol resistant foam, fire extinguishing powder, ABC-powder

5.2 Special hazards arising from the substance or mixture Hazardous combustion products

nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂)

5.3 Advice for firefighters

Keep containers cool with water spray. In case of fire and/or explosion do not breathe fumes. Co-ordinate fire-fighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

UNIGLOVES Hygienetücher Lemon Fresh

Version number: GHS 1.1

Date of compilation: 2016-04-20

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area. Prevent skin contact. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

In case of formation of gases/vapours/mists: Suppress with water spray. Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains. Take up mechanically. Advices on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area. 6.4

Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

• Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

• Warning

Vapours may form explosive mixtures with air.

• Handling of incompatible substances or mixtures

• Keep away from

oxidisers - acids

Advice on general occupational hygiene

Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs. Do not get in eyes, on skin, or on clothing. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from sunlight.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

• Explosive atmospheres

Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed.



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

UNIGLOVES Hygienetücher Lemon Fresh

Version number: GHS 1.1

Date of compilation: 2016-04-20

- **Flammability hazards**

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

Incompatible substances or mixtures

Observe hints for combined storage.

- **Protect against external exposure, such as**

frost

Consideration of other advice

- **Packaging compatibilities**

Keep only in original container.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits) No information available.

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
EU	ethyl methyl ketone	78-93-3	IOELV	200	600	300	900	2000/39/EC
GB	ethanol	64-17-5	WEL	1,000	1,920			EH40/2005
GB	propan-2-ol	67-63-0	WEL	400	999	500	1,250	EH40/2005
GB	butan-2-one (methyl ethyl ketone)	78-93-3	WEL	200	600	300	899	EH40/2005

Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Material	Source
GB	butanone	ethyl methyl ketone		BMGV	70 µmol/l	urine	EH40/2005

Relevant DNELs/DMELs/PNECs and other threshold levels

- **relevant DNELs of components of the mixture**

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
ethanol	64-17-5	DNEL	1,900 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
ethanol	64-17-5	DNEL	343 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
ethanol	64-17-5	DNEL	950 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
propan-2-ol	67-63-0	DNEL	500 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

UNIGLOVES Hygienetücher Lemon Fresh

Version number: GHS 1.1

Date of compilation: 2016-04-20

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
propan-2-ol	67-63-0	DNEL	888 mg/kg	human, dermal	worker (industry)	chronic - systemic effects

• relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
ethanol	64-17-5	PNEC	0.96 mg/l	aquatic organisms	freshwater	short-term (single instance)
ethanol	64-17-5	PNEC	0.79 mg/l	aquatic organisms	marine water	short-term (single instance)
ethanol	64-17-5	PNEC	580 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
ethanol	64-17-5	PNEC	3.6 mg/kg	benthic organisms	sediments	short-term (single instance)
ethanol	64-17-5	PNEC	0.63 mg/kg	terrestrial organisms	soil	short-term (single instance)
ethanol	64-17-5	PNEC	2.75 mg/l	aquatic organisms	water	continuous
propan-2-ol	67-63-0	PNEC	160 mg/kg	aquatic organisms	water	short-term (single instance)
propan-2-ol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	freshwater	short-term (single instance)
propan-2-ol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	marine water	short-term (single instance)
propan-2-ol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	water	continuous
propan-2-ol	67-63-0	PNEC	2,251 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
propan-2-ol	67-63-0	PNEC	552 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
propan-2-ol	67-63-0	PNEC	552 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
propan-2-ol	67-63-0	PNEC	28 mg/kg	terrestrial organisms	soil	short-term (single instance)
didecyldimethylammonium chloride	7173-51-5	PNEC	2 µg/l	aquatic organisms	freshwater	short-term (single instance)
didecyldimethylammonium chloride	7173-51-5	PNEC	0.2 µg/l	aquatic organisms	marine water	short-term (single instance)
didecyldimethylammonium chloride	7173-51-5	PNEC	0.29 µg/l	aquatic organisms	water	continuous
didecyldimethylammonium chloride	7173-51-5	PNEC	0.595 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
didecyldimethylammonium chloride	7173-51-5	PNEC	2.82 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
didecyldimethylammonium chloride	7173-51-5	PNEC	0.28 mg/kg	aquatic organisms	marine sediment	short-term (single instance)



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

UNIGLOVES Hygienetücher Lemon Fresh

Version number: GHS 1.1

Date of compilation: 2016-04-20

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
didecyltrimethylammonium chloride	7173-51-5	PNEC	1.4 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- hand protection

Wear protective gloves.

- type of material Fluorkautschuk

(Viton)

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Wash hands thoroughly after handling.

Respiratory protection

[In case of inadequate ventilation] wear respiratory protection. In case of aerosol/fog formation or high concentrations wear breathing protection.

Body protection

Protective workwear.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

solid (impregnated nonwoven cloths)

Colour

different

Odour

alcoholic

Other physical and chemical parameters

pH (value)

5 - 6

Melting point/freezing point

not determined

Initial boiling point and boiling range

82.3 °C at 101.3 kPa

Flash point

22 - 23 °C (impregnating liquids)

Evaporation rate

not determined

Flammability (solid, gas)

Flammable solid in accordance with GHS criteria 50 g/m³

- lower explosion limit (LEL)

335 g/m³

- upper explosion limit (UEL)

Vapour pressure

60.2 hPa at 20 °C

Density

not determined

Relative density Solubility(ies)

Information on this property is not available. not determined



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

UNIGLOVES Hygienetücher Lemon Fresh

Version number: GHS 1.1

Date of compilation: 2016-04-20

Partition coefficient	
n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	>363 °C
Viscosity	not relevant (solid matter)
Explosive properties	none
Oxidising properties	none

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition

- if heated

risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

Might form explosive mixture of gases with air. Hot product generates flammable gases .

10.4 Conditions to avoid

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

10.5 Incompatible materials

strong oxidiser - acids

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

- Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
didecyldimethylammonium chloride	7173-51-5	oral	238

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

UNIGLOVES Hygienetücher Lemon Fresh

Version number: GHS 1.1

Date of compilation: 2016-04-20

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant. **Specific target organ toxicity (STOT)**

Shall not be classified as a specific target organ toxicant.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
ethanol	64-17-5	LC50	14.2 g/l	fish	96 hours
ethanol	64-17-5	EC50	12.9 g/l	fish	96 hours
propan-2-ol	67-63-0	LC50	10,000 mg/l	fish	96 hours
didecyldimethylammonium chloride	7173-51-5	LC50	0.97 mg/l	fish	96 hours
didecyldimethylammonium chloride	7173-51-5	EC50	0.057 mg/l	aquatic invertebrates	48 hours

Aquatic toxicity (chronic)

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
ethanol	64-17-5	LC50	>0.08 mg/l	fish	42 d
ethanol	64-17-5	EC50	22.6 g/l	algae	10 d
ethanol	64-17-5	ErC50	675 mg/l	algae	4 d
propan-2-ol	67-63-0	LC50	>10,000 mg/l	aquatic invertebrates	24 h

12.2 Persistence and degradability

Data are not available.

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
ethanol	64-17-5	oxygen depletion	74 %	5 d
propan-2-ol	67-63-0	oxygen depletion	53 %	5 d
didecyldimethylammonium chloride	7173-51-5	carbon dioxide generation	71 %	28 d



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

UNIGLOVES Hygienetücher Lemon Fresh

Version number: GHS 1.1

Date of compilation: 2016-04-20

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
ethanol	64-17-5		-0.35	
propan-2-ol	67-63-0		0.05	
didecyldimethylammonium chloride	7173-51-5		-0.41	

12.4 Mobility in soil Data

are not available.

12.5 Results of PBT and vPvB assessment Data are

not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets. **Waste treatment of containers/packagings**

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | | |
|------|--|--|
| 14.1 | UN number | 3175 |
| 14.2 | UN proper shipping name | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. |
| | Hazardous ingredients | Ethanol, Propan-2-ol |
| 14.3 | Transport hazard class(es) | 4.1 (flammable solids) |
| | Class | II (substance presenting medium danger) |
| 14.4 | Packing group | none (non-environmentally hazardous acc. to the dangerous goods regulations) |
| 14.5 | Environmental hazards | |
| 14.6 | Special precautions for user | |
| | Provisions for dangerous goods (ADR) should be complied within the premises. | |



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

UNIGLOVES Hygienetücher Lemon Fresh

Version number: GHS 1.1

Date of compilation: 2016-04-20

- 14.7** Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	3175
Proper shipping name	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
Class	4.1
Classification code	F1
Packing group	II
Danger label(s)	4.1



Special provisions (SP) Excepted quantities (EQ) Limited quantities (LQ) Transport category (TC) Tunnel restriction code (TRC) Hazard identification No Emergency Action Code	216, 274, 601, 800
	E2
	1 kg
	2
	E
	40
	1Z

• International Maritime Dangerous Goods Code (IMDG)

UN number	3175
Proper shipping name	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
Class	4.1
Packing group	II
Danger label(s)	4.1



Special provisions (SP) Excepted quantities (EQ) Limited quantities (LQ) EmS Stowage category	216, 274
	E2
	500 g
	F-A, S-I
	B

• International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	3175
Proper shipping name	Solids containing flammable liquid, n.o.s. 4.1
Class	II
Packing group	II
Danger label(s)	4.1



Special provisions (SP) Excepted quantities (EQ) Limited quantities (LQ)	A46, 274
	E2
	5 kg



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

UNIGLOVES Hygienetücher Lemon Fresh

Version number: GHS 1.1

Date of compilation: 2016-04-20

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture 15.2 Chemical

Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
Acute Tox.	acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	hazardous to the aquatic environment - acute hazard
Aquatic Chronic	hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	BioConcentration Factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	seriously damaging to the eye
Eye Irrit.	irritant to the eye
Flam. Liq.	flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

UNIGLOVES Hygienetücher Lemon Fresh

Version number: GHS 1.1

Date of compilation: 2016-04-20

Abbr.	Descriptions of used abbreviations
IMDG	International Maritime Dangerous Goods Code
IOELV	indicative occupational exposure limit value
log KOW	n-octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") No-
NLP	Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	corrosive to skin
Skin Irrit.	irritant to skin
STEL	short-term exposure limit
STOT SE	specific target organ toxicity - single exposure
TWA	time-weighted average
vPvB	very Persistent and very Bioaccumulative
WEL	workplace exposure limit

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)
- Verordnung (EU) Nr. 528/2012 (BPR)

Classification procedure

Physical and chemical properties, Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H225	highly flammable liquid and vapour
H228	flammable solid
H301	toxic if swallowed
H314	causes severe skin burns and eye damage
H318	causes serious eye damage
H319	causes serious eye irritation
H336	may cause drowsiness or dizziness
H400	very toxic to aquatic life
H411	toxic to aquatic life with long lasting effects



Safety Data Sheet

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UNIGLOVES Hygienetücher Lemon Fresh

Version number: GHS 1.1

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Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Data sheet issued by: BfU AG - www.bfu-ag.de.