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SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

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

company/undertaking	
Date issued	12.08.2015
1.1. Product identifier	
Product name	Unger Liquid/Gel UG (EU / EN)
Article no.	Liquid: FR100/FR500; 85542D/855421/85542G. Gel: FG050.
1.2. Relevant identified us	es of the substance or mixture and uses advised against
Function	Detergent
Product group	Cleaning agents
Use of the substance/preparation	Glass Cleaner - Non-Aerosol
Uses advised against	No specific uses advised against are identified.
The chemical can be used by the	Yes
general public	
1.3. Details of the supplier	r of the safety data sheet
Company name	Unger Germany GmbH
Postal address	Piepersberg 44
Postcode	D-42653
City	Solingen
Country	Germany
Tel	+49 (0) 212 2207 0
Fax	+49 (0) 212 2207 222
E-mail	compliance@unger-europe.com
Website	http://www.ungerglobal.com
1.4. Emergency telephone	number

Emergency telephone

Business hours: Monday to Thursday 8 am - 5 pm, Friday 8 am - 4 pm:+49 (0) 212 22 07 0

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] Eye Irrit. 2; H319

2.2. Label elements

Hazard Pictograms (CLP)



 Signal word
 Warning

 Hazard statements
 H319 Causes serious eye irritation.

 Precautionary statements
 P101 If medical advice is needed, have product container or label at hand.

 P280 Wear protective gloves/protective clothing/eye protection/face protection.

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	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up.
2.3. Other hazards	
Physico-chemical effects	Cf. section 9 for physical-chemical information.
Health effect	May be harmful if swallowed. May irritate eyes and skin.
Environmental effects	Cf. section 12 for information on ecology.
Symptoms and effects of potential	No information required.
misuse	

SECTION 3: Composition/information on ingredients

3.2. Mixtures			
Substance	Identification	Classification	Contents
Fatty alcohol ethoxylate (EU)	CAS no.: 68439-50-9 EC no.: 500-213-3 Registration number: 01- 2119487984-16 Synonyms: Alcohols, C12-C14, ethoxylated IUPAC name: Alcohols, C12- C14 (even numbered), ethoxylated	Acute tox. 4; H302 Eye Dam. 1; H318	1 < 5 % wt/wt
Ethanol (EU)	CAS no.: 64-17-5 EC no.: 200-578-6 Index no.: 603-002-00-5 Registration number: 01- 2119457610-43 Synonyms: Ethyl alcohol IUPAC name: Ethanol	Flam. Liq. 2; H225	1 < 5 % wt/wt
Fatty acid amidoalkyl betaine (EU)	CAS no.: 61789-40-0 EC no.: 236-058-8 Synonyms: Coco amido betaine IUPAC name: 1-Propanamine, 3-amino-N-(carboxymethyl)-N,N- dimethyl-, N-coco acyl derivates, inner hydroxides	Eye Irrit. 2; H319 Aquatic Chronic 3; H412	1 < 5 % wt/wt
Description of the mixture	Aqueous solution of organic subst viscous gel.	ances. Green or blue. Non-vi	scous liquid or

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Place unconscious person on the side in the recovery position and ensure breathing can take place. If medical advice is needed, have product container or label at hand.
Inhalation	Due to the small packaging the risk of inhalation is minimal. IF INHALED: Move into fresh air and keep at rest.
Skin contact	Wash skin with soap and water.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.
Ingestion	Immediately rinse mouth and drink plenty of water (200-300 ml). Do not give victim anything to drink if he is unconscious. Do NOT induce vomiting. If medical advice is needed, have product container or label at hand.

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

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

Specific details on antidotes Decontamation, symptomatic treatment. No special antidote known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Product doesn't ignite. Use fire-extinguishing media appropriate for surrounding materials.	
Improper extinguishing media	Water jet.	
5.2. Special hazards arising from the substance or mixture		
Fire and explosion hazards	This product is not flammable.	
Hazardous combustion products	Carbon dioxide (CO2). Carbon monoxide (CO). Nitrous gases (NOx). Organic decomposition products.	

5.3. Advice for firefighters

Personal protective equipment In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid contact with eyes and skin.		
Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.		
Cf. section 5		
ponders		
In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required.		
utions		
Avoid discharge into drains, water courses or onto the ground.		
6.3. Methods and material for containment and cleaning up		
Absorb spillage with non-combustible, absorbent material. Sweep-up or pick- up with an industrial vacuum cleaner, store in closed container for disposal.		

6.4. Reference to other sections

Other instructions

Cf. section 8 for personal protection, and section 13 for waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Observe good chemical hygiene practices. Avoid contact with eyes and prolonged skin contact. Avoid eating, drinking and smoking when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store at moderate temperatures in dry, well ventilated area.
Conditions for safe storage	9
Requirements for storage rooms	Storage in gateways, passages, stairways, hallways open to public, roofs,
and vessels	attics, cellars and work-rooms is not admissible.
Advice on storage compatability	No incompatibilities known.
7.3. Specific end use(s)	
Recommendations	cf. section 1.2
Specific end users	

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Ethanol	CAS no.: 64-17-5	8-hour TWA: 1920 mg/m ³	
	EC no.: 200-578-6	WEL Workplace Exposure	
	Index no.: 603-002-00-5	Limit	
	Registration number: 01-	Guidance Note EH40 –	
	2119457610-43	Occupational Exposure Limits	
	Synonyms: Ethyl alcohol	(U.K.)	
DNEL / PNEC			
Recommended monitoring	DFG Air Analysis: Method Nr. 6 Solve	nt mixtures.	
procedures	MétroPol Fiche 017: Alcool éthylique.		
8.2. Exposure controls			
Precautionary measures to	o prevent exposure		
Organisational measures to prevent	Thoroughly clean hands, forearms, and face after handling of the product,		
exposure	before eating, drinking and lavatory use, and at the end of the work shift.		
Technical measures to prevent	Use engineering controls to reduce air contamination to permissible exposure		
exposure	level.		
Respiratory protection			
Respiratory protection	Under normal conditions of use respiration protection should not be required.		
	In case of inadequate ventilation or w	•	table
	respiratory equipment with gas filter (t	ype A2).	
Hand protection			
Hand protection	For prolonged or repeated skin contact use suitable protective gloves.		
Reference to relevant standard	On basis of test data.		
Suitable materials	Gloves of nitrile rubber, PVA or Viton are recommended.		
Unsuitable materials	Leather or textile.		
Breakthrough time	>480 min		
Thickness of glove material	0,4 mm		
Eye / face protection			
Eye protection	Wear approved, tight fitting safety glas	sses where splashing is probable.	
Skin protection			
Skin protection (except hands)	Generally regular work clothing suffici	ent.	
Hygiene / Environmental			
Specific hygiene measures	No specific hygiene procedures noted	, but good personal hygiene pract	ices
	are always advisable, especially when	-	sing do
	not eat, drink or smoke. Wash at the e	end of each work shift and before	
	eating, smoking and using the toilet.		

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Non-viscous liquid or viscous gel.
Colour	Green or blue.
Odour	Fresh.
Comments, pH (as supplied)	No data recorded.
pH (aqueous solution)	Value: 6,7
Comments, Boiling point / boiling	No data recorded.
range	
Comments, Flash point	No data recorded.

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Comments, Evaporation rate	No data recorded.
Flammability (solid, gas)	No data recorded.
Comments, Vapour pressure	No data recorded.
Comments, Vapour density	No data recorded.
Density	Value: 1,006 g/ml
Solubility in water	Unlimited miscible
Comments, Decomposition	No data recorded.
temperature	
Comments, Viscosity	No data recorded.
Explosive properties	Not explosive
Oxidising properties	Not oxidizing
9.2. Other information	
Softening point	Comments: No data available
Content Of Voc	Comments: No data available
Physical bazards	

Physical hazards Comments, Particle size

No data recorded.

SECTION 10: Stability and reactivity

10.1. Reactivity		
Reactivity	Stable in normal conditions.	
10.2. Chemical stability		
Stability	Stable under normal temperature conditions and recommended use.	
10.3. Possibility of hazardous reactions		
Possibility of hazardous reactions	No hazardous reactions under regular storage and handlings conditions known.	
10.4. Conditions to avoid		
Conditions to avoid	Heating.	
10.5. Incompatible materials		
Materials to avoid	Strong acids.	
10.6. Hazardous decomposition products		
Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other	

toxic gases or vapours. Organic decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological data for substances

Substance	Fatty alcohol ethoxylate (EU)
LD50 oral	Value: 200-2000 mg/kg bw Animal test species: rat
Potential acute effects	
Inhalation	No specific health warnings noted. Dust may irritate respiratory system.
Skin contact	No specific health warnings noted. Dust has an irritating effect on moist skin. Prolonged contact may cause redness and irritation.
Eye contact	No specific health warnings noted. Prolonged contact may cause redness and/or tearing. Causes serious eye irritation.
Ingestion	No specific health warnings noted. The product causes irritation of mucous membranes and may cause abdominal discomfort if swallowed. Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhoea.
Aspiration hazard	No data recorded.
Eye damage or irritation, test	Toxicity type: Eye damage
results	Method: OECD Guideline 437 / EU Method B.47 / Bovine Corneal Opacity and Permeability (BCOP Test)

Species: In-vitro test on bovine cornea (Bos primigenius taurus)		
Test reference: Incubation time: 10 minutes at 32+-1°CNegative control: 0.9%		
sodium chloride solutionPositive control: dimethyl formamide (DMF)		
Comments: Negative control: IVIS -0,011		
Positive control: IVIS 59,1		
Sample: IVIS 19,6		
Result: negative / product is not to be classified as eye damaging, but as a		
precaution to be classified as eye irritating.		
Delayed effects / repeated exposure		

Sensitisation	No specific health warnings noted.	
STOT-single exposure	No data available, probably no subchronic toxicity	
STOT-repeated exposure	No data available, probably no chronic toxicity	
Carcinogenic, Mutagenic or Reprotoxic		
Carcinogenicity	No specific health warnings noted	

Carcinogenicity	No specific health warnings noted.
Mutagenicity	No specific health warnings noted.
Teratogenic properties	No specific health warnings noted.
Reproductive toxicity	No specific health warnings noted.

SECTION 12: Ecological information

12.1. Toxicity

Toxicological data for substances

-	
Substance	Fatty alcohol ethoxylate (EU)
Acute aquatic, fish	Value: 1-10 mg/l
	Method of testing: LC50
Substance	Fatty acid amidoalkyl betaine (EU)
Acute aquatic, fish	Value: 0,16 mg/l
	Method of testing: NOEC
	Species: Onchorhynchus mykiss
Acute aquatic, Daphnia	Value: 0,9 mg/l
	Method of testing: NOEC
	Species: Daphnia magna

12.2. Persistence and degradability

Persistence and degradability All organic components are considered biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

Mobility

No data on possible environmental effects have been found.

12.5. Results of PBT and vPvB assessment

PBT assessment results This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Comments, Ozone depletion	Ozone depletion potential not known
potential	
Comments, Photochemical ozone	Ozone formation potential not known
creation	
Comments Global warming potential	Global greenhouse effect not known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of	Dispose of waste and residues in accordance with local authority
disposal	requirements. No specific disposal method required.
Relevant waste regulation	European Waste Inventory according to the Decision 2014/955/EU on the list
	of waste

Unger Liquid/Gel UG (EU / EN)

Hazardous waste packing	Submit contaminated packagings to take-back systems or to a regulated recycling or disposal by an approved disposal company. Recommended waste key codes: 15 01 10* Packaging containing residues of or contaminated by hazardous substances
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes
EWC waste code	EWC: 070601 aqueous washing liquids and mother liquors

SECTION 14: Transport information

14.1. UN number

Comments

Comments

No recommendation given.

14.2. UN proper shipping name

No recommendation given.

14.3. Transport hazard class(es)

Comments No recommendation given.

14.4. Packing group

Comments No recommendation given.

14.5. Environmental hazards

Comments No recommendation given.

14.6. Special precautions for user

Special safety precautions for user No recommendation given.

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

Product name

Additional information.

No recommendation given.

Additional information.

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

ADR / RID - Other information

ADR Other information No recommendation given.

ADN - Other information

Other information No recommendation given.

IMDG / ICAO / IATA Other information

IMDG Other information No recommendation given.

SECTION 15: Regulatory information

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

substance or mixture

Detergents	Ingredients according to the Regulation on Detergents 648/2004: less than 5% amphoteric surfactants, non-ionic surfactants, limonene.
EEC-directive	Regulation (EC) No. 1907/2006 and Regulation (EC) 2015/830 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.
References (laws/regulations)	Other UK regulations and guidances: Health and Safety at Work Act 1974. The Management of Health and Safety at Work regulations 1992. L5 Control of substances hazardous to Health. The Control of Substances

Hazardous to Health Regulations 2002. Aproved codes of practice and guidance.
Guidance Note EH40 – Occupational Exposure Limits. BS EN ISO 10882-1:2001 – health and safety in welding and allied processes – sampling of air-borne particles and gases in the operator's breathing zone – part 1: sampling of airborne particles.

15.2. Chemical safety assessment

Chemical safety assessment	No
performed	
Chemical Safety Assessment	No data recorded.
Exposure scenarios for mixture	No
Exposure Scenario Comments	No recommendation given.

SECTION 16: Other information		
Supplier's notes	The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.	
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Eye Irrit. 2; H319;	
List of relevant H-phrases (Section 2 and 3).	 H318 Causes Serious eye damage. H302 Harmful if swallowed. H412 Harmful to aquatic life with long lasting effects. H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. 	
Training advice	No information required.	
Recommended restrictions on use	Not relevant.	
User notes	In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material, as far as not expressly stated otherwise.	
Version	1	
Responsible for safety data sheet	Unger Germany GmbH	