SAFETY DATA SHEET

Unger Green Label Liquid (UG/EN)

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	16.06.2023

1.1. Product identifier

Product name	Unger Green Label Liquid (UG/EN)
UFI	1M90-V02M-Q005-WXHH
Synonyms	Green Label Liquid 1l
Article no.	GTL10

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

Function	Description: Detergent
Product group	Cleaning agents
Use of the substance / mixture	Glass Cleaner - Non-Aerosol
Uses advised against	No specific uses advised against are identified.
Industrial use	Yes
Professional use	Yes
Consumer use	No

1.3. Details of the supplier of the safety data sheet

Company name	Unger Germany GmbH
Postal address	Piepersberg 44
Postcode	D-42653
City	Solingen
Country	Germany
Telephone number	+49 (0) 212 2207 0
Fax	+49 (0) 212 2207 222
Email	compliance@ungerglobal.com

Website	www.ungerglobal.com

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

2.2. Label elements

Hazard pictograms (CLP)

Composition on the label	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts
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. P102 Keep out of reach of children. P280 Wear eye protection. 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. P501 Dispose of contents / container to waste after flushing with water
Other EU labelling requirements	Ingredients according to the regulation on detergents 648/2004: 5% or over but less than 15% nonionic surfactants, less than 5% amphoteric surfactants, anionic surfactants, polycarboxylates. Surfactants biodegradable. Perfumes. Preservatives. BENZOIC ACID

2.3. Other hazards

PBT / vPvB	This product does not contain any PBT or vPvB substances.
Physicochemical effects	Cf. section 9 for physical-chemical information.
Health effect	May irritate eyes and skin.
Environmental effects	Cf. section 12 for information on ecology.
Symptoms and effects of potential misuse	No information.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Composition type	Mixture

Substance	Identification	Classification	Contents	Notes
2-Propylheptanol ethoxylate (EU/EN)	CAS No.: 160875-66-1 EC No.: 605-233-7	Eye Dam. 1; H318; On basis of test data	1 < 10 % wt/wt	
1-Propanaminium, 3-amino-N-(carboxymethyl) -N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts	CAS No.: 147170-44-3 EC No.: 931-333-8 REACH Reg. No.: 01-2119489410-39-XXXX	Eye Dam. 1; H318; On basis of test data Aquatic Chronic 3; H412; On basis of test data	1 < 3 % wt/wt	

Description of the mixture	Aqueous solution of organic substances. Green. Non-viscous liquid.

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. 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

Acute symptoms and effects	Burning sensation.

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 does not 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

General measures	Avoid aerosol formation. Avoid contact with eyes and skin.
Personal protection measures	Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
For emergency responders	In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required.

6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Clean 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

Requirements for storage rooms and vessels	Storage in gateways, passages, stairways, hallways open to public, roofs, 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

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Control parameters comments	Not known.

8.2. Exposure controls

Safety signs

Precautionary measures to prevent exposure

Organisational measures to prevent exposure	Thoroughly clean hands, forearms, and face after handling of the product, before eating, drinking and lavatory use, and at the end of the work shift.
Technical measures to prevent exposure	Use engineering controls to reduce air contamination to permissible exposure level.

Eye / face protection

Required Properties	Wear approved, tight fitting safety glasses where splashing is probable.

Hand protection

Skin- / hand protection, long term contact	For prolonged or repeated skin contact use suitable protective gloves.
Suitable materials	Gloves of nitrile rubber, PVA or Viton are recommended.
Unsuitable materials	Leather or textile.
Breakthrough time	Value: >480 min
Thickness of glove material	Value: 0,4 mm
Hand protection, comments	On basis of test data.

Skin protection

Suitable protective clothing	Generally regular work clothing sufficient.

Respiratory protection

Respiratory protection necessary at	Under normal conditions of use respiration protection should not be required.
Respiratory protection, comments	In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter (type A2).

Hygiene / environmental

Specific hygiene measures	No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. When using do not eat, drink or smoke. Wash at the 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.
Colour	Green.
Odour	Fresh.
pH	Status: In delivery state Comments: No data recorded. Status: In aqueous solution Value: 5.1
Boiling point / boiling range	Comments: No data recorded.
Flash point	Comments: No data recorded.
Evaporation rate	Comments: No data recorded.
Flammability	No data recorded.
Vapour pressure	Comments: No data recorded.
Vapour density	Comments: No data recorded.
Density	Value: 1,05 g/ml
Solubility	Medium: Water Comments: Unlimited miscible
Decomposition temperature	Comments: No data recorded.
Viscosity	Comments: No data recorded.
Explosive properties	Not explosive
Oxidising properties	Not oxidizing

9.2. Other information

Softening point	Comments: No data available

Physical hazards

Content of VOC	Comments: No data available
Particle size	Comments: 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 hazard classes as defined in Regulation (EC) No 1272/2008

Substance	2-Propylheptanol ethoxylate (EU/EN)
Acute toxicity	**Effect tested:** LD50 **Route of exposure:** Oral **Value:** > 700 mg/kg bw /d **Animal test species:** Rat **Effect tested:** LD50 **Route of exposure:** Dermal **Value:** > 2000 mg/kg bw /d **Animal test species:** Rat **Comments:** An in-vitro test according to OECD 437 (BCOP test) with 1 to 10% (w / w) of the substance in aqueous solution has shown that no eye-damaging effects are to be expected in this concentration range. However, eye irritant properties are not excluded, so that in the range 1 to <10% a precautionary classification with Eye Irrit.2; H319 is adopted.
Substance	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts
Acute toxicity	**Effect tested:** LD50 **Route of exposure:** Oral **Value:** 2430 mg/kg bw /d **Animal test species:** Rat **Effect tested:** LD50 **Route of exposure:** Dermal **Value:** > 620 mg/kg bw /d **Animal test species:** Rat **Effect tested:** LC50 **Route of exposure:** Inhalation. (mist) **Duration:** 4 hour(s) **Value:** > 5 mg/l **Animal test species:** Rat **Comments:** According to the registration dossier, substance-specific limit values (SCL) for eye damage with Eye Dam.1; H318 at > 10% (w / w) and for eye irritation

	with Eye Irrit.2; H319 at > 4 to 10% (w/w) were determined when testing the substance.

Other information regarding health hazards

Inhalation	No specific health warnings noted. Mist may irritate respiratory system.
Skin contact	No specific health warnings noted. Mist may have an irritating effect on moist skin. Prolonged contact may cause redness and irritation.
Eye contact	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.
Sensitisation	No specific health warnings noted.
Mutagenicity	No specific health warnings noted.
Carcinogenicity, other information	No specific health warnings noted.
Reproductive toxicity	No specific health warnings noted.
Specific target organ toxicity - single exposure, human experience	No data available, probably no chronic toxicity
Assessment of specific target organ toxicity - single exposure, classification	No data available, probably no subchronic or subacute toxicity
Aspiration hazard, comments	No data recorded.

11.2 Other information

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	Data lacking.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	All organic components are considered biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation, evaluation	The product contains no substances that are expected to be bioaccumulating.

12.4. Mobility in soil

Mobility	No data on possible environmental effects have been found.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

12.7. Other adverse effects

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Dispose of waste and residues in accordance with local authority requirements. No specific disposal method required.
EWC waste code	EWC waste code: 070601 aqueous washing liquids and mother liquors Classified as hazardous waste: Yes EWC waste code: 150110 packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste: Yes
EU Regulations	European Waste Inventory according to the Decision 2014/955/EU on the list of waste
Other information	Submit contaminated packagings to take-back systems or to a regulated recycling or disposal by an approved disposal company.

SECTION 14: Transport information

14.1. UN number

Comments	No recommendation given.

14.2. UN proper shipping name

Comments	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

ADR/RID/ADN	No recommendation given.
IMDG	No recommendation given.
ICAO/IATA	No recommendation given.

14.6. Special precautions for user

Special safety precautions for user	No recommendation given.

14.7. Maritime transport in bulk according to IMO instruments

Product name	No recommendation given.

ADR/RID Other information

Limited quantity	No recommendation given.

ADN Other information

Additional information ADN	No recommendation given.

IMDG Other information

Additional information IMDG	No recommendation given.

SECTION 15: Regulatory information

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

EEC-directive	Regulation (EC) No. 1907/2006 and Regulation (EC) 2020/878 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 Managing for health and safety (HSG65) 2013. 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 performed	No
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.
List of relevant H-phrases (Section 2 and 3)	H318 Causes serious eye damage. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
Training advice	No information.
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.
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