



# SAFETY DATA SHEET

## Unger Liquid UE (US-CA-MX / EN)



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

Date issued 30.08.2015

#### 1.1. Product identifier

Product name Unger Liquid UE (US-CA-MX / EN)

Article no. FR110 / FR380

#### 1.2. Relevant identified uses 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 general public Yes

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

Company name Unger Enterprises LLC

Office address 425 Asylum Street

Postcode 06610

City Bridgeport, CT

Country United States of America

Tel +1 800 431 2324

Fax +1 800 367 1988

E-mail [compliance@ungerglobal.com](mailto:compliance@ungerglobal.com)

Website <http://www.ungerglobal.com>

#### 1.4. Emergency telephone number

Identification comments For Hazardous Materials [or Dangerous Goods] Incident - Spill, Leak, Fire, Exposure, or Accident - Call CHEMTREC Day or Night.  
 Within USA and Canada: 1-800-424-9300 CCN726541 or +1 703-527-3887 (collect calls accepted).  
 Within Mexico, please call + 1 203 366 4884 (collect calls accepted) between 8:30 am – 5:00 pm Eastern Time Zone (EST/EDT).

### SECTION 2: Hazards identification

#### 2.1. Classification of substance or mixture

Classification according to GHS Skin Irrit. 2; H315  
 Eye Irrit. 2; H319  
 Skin Sens. 1; H317

#### 2.2. Label elements

#### Hazard Pictograms



Composition on the label	Sodium alpha olefine sulfonate:0,1 - 1,0 % wt/wt, 2-(2-Methoxypropoxy)propanol:0,1 - 1,0 % wt/wt, Lauramine oxide:0,1 - 1,0 % wt/wt, Alcohols, C9-11 ethoxylated:0,1 - 1,0 % wt/wt, Sodium laureth sulfate:0,1 - 1,0 % wt/wt, Sodium iminodisuccinate:0,1 - 1,0 % wt/wt, Alcohols, C10-16, ethoxylated:< 0,1 % wt/wt, Sodium sulfate:< 0,1 % wt/wt, Sodium chloride:< 0,1 % wt/wt, Magnesium nitrate:< 0,1 % wt/wt, Magnesium chloride:< 0,1 % wt/wt, Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one [CAS No. 26172-55-4] and 2-methyl-2H-isothiazol-3-one [CAS No. 2682-20-4] (3:1) (US):< 0,1 % wt/wt
Signal word	Warning
Hazard statements	H315 Causes skin irritation. H317 May cause an allergic skin reaction. 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. 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.

### 2.3. Other hazards

Physico-chemical effects	Cf. section 9 for physical-chemical information.
Health effect	Cf. section 11 for toxicological information
Environmental effects	Cf. section 12 for information on ecology.
Symptoms and effects of potential misuse	No information required.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Substance	Identification	Classification	Contents
Sodium alpha olefine sulfonate (US)	CAS no.: 68439-57-6 Synonyms: Sodium C14-16 olefin sulfonate IUPAC name: Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	0,1 - 1,0 % wt/wt
2-(2-Methoxypropoxy)propanol (US)	CAS no.: 34590-94-8 Synonyms: Dipropylene glycol monomethyl ether IUPAC name: 2-(2-Methoxypropoxy)propanol		0,1 - 1,0 % wt/wt
Lauramine oxide (US)	CAS no.: 1643-20-5 Synonyms: Dodecyldimethylamine oxide IUPAC name: Dodecyldimethylamine oxide	Acute tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 4; H410	0,1 - 1,0 % wt/wt
Alcohols, C9-11 ethoxylated (US)	CAS no.: 68439-46-3 Synonyms: Alcohols, ethoxylated IUPAC name: Alcohols, C9-11 ethoxylated, < 2.5 EO	Eye Dam. 1; H318	0,1 - 1,0 % wt/wt
Sodium laureth sulfate (US)	CAS no.: 9004-82-4 Synonyms: Poly(oxy-1,2-		0,1 - 1,0 % wt/wt

Sodium iminodisuccinate (US)	ethanediyl), $\alpha$ -sulfo- $\omega$ - (dodecyloxy)-, sodium salt (1:1) IUPAC name: Poly(oxy-1,2- ethanediyl), $\alpha$ -sulfo- $\omega$ - (dodecyloxy)-, sodium salt (1:1) CAS no.: 144538-83-0 Synonyms: Tetrasodium iminodisuccinate IUPAC name: Aspartic acid, N- (1,2-dicarboxyethyl)-, sodium salt (1:4)		0,1 - 1,0 % wt/wt
Alcohols, C10-16, ethoxylated (US)	CAS no.: 68002-97-1 Synonyms: C10-16 pareth-1 IUPAC name: alpha-Alkyl- omega- hydroxypoly(oxypropylene)	Acute tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0,1 % wt/wt
Sodium sulfate (US)	CAS no.: 7757-82-6 Synonyms: Sulfuric acid disodium salt IUPAC name: Sulfuric acid disodium salt		< 0,1 % wt/wt
Sodium chloride (US)	CAS no.: 7647-14-5 Synonyms: Hydrochloric acid, sodium salt IUPAC name: Hydrochloric acid, sodium salt		< 0,1 % wt/wt
Magnesium nitrate (US)	CAS no.: 10377-60-3 Synonyms: Nitric acid, magnesium salt IUPAC name: Nitric acid, magnesium salt	Ox. Sol. 3; H272	< 0,1 % wt/wt
Magnesium chloride (US)	CAS no.: 7786-30-3 Synonyms: Magnesium dichloride IUPAC name: Magnesium dichloride		< 0,1 % wt/wt
Mixture of 5-chloro-2-methyl-4- isothiazolin-3-one [CAS No. 26172- 55-4] and 2-methyl-2H-isothiazol-3- one [CAS No. 2682-20-4] (3:1) (US)		Acute tox. 3; H301 Acute tox. 3; H311 Skin Corr 1B; H314 Skin Sens. 1; H317 Acute tox. 3; H331 STOT SE3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0,1 % wt/wt
Description of the mixture	Aqueous solution of organic substances. Green. Non-viscous. 0% of the mixture consists of ingredient(s) of unknown toxicity.		

## 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 (7-10 fl. oz.). Never give liquid to an unconscious person. 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.
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## 4.3. Indication of any immediate medical attention and special treatment needed

Specific details on antidotes	Decontamination, symptomatic treatment. No special antidote known.
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## 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 (CO <sub>2</sub> ). Carbon monoxide (CO). Nitrous gases (NO <sub>x</sub> ). 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.
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## SECTION 6: Accidental release measures

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

General measures	Avoid contact with eyes and skin.
Personal protection measures	Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
Hazardous combustion products	Cf. section 5

#### 6.1.2. For emergency responders

For emergency responders	In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required.
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### 6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into drains, water courses or onto the ground.
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### 6.3. Methods and material for containment and cleaning up

Cleaning method	Absorb spillage with suitable absorbent material. Sweepup or pickup with an industrial vacuum cleaner, store in closed container for disposal.
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### 6.4. Reference to other sections

Other instructions	Cf. section 8 for personal protection, and section 13 for waste disposal.
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## 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.
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### 7.2. Conditions for safe storage, including any incompatibilities

Storage	Store at moderate temperatures in dry, well ventilated area.
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#### Conditions for safe storage

Requirements for storage rooms	Storage in gateways, passages, stairways, hallways open to public, roofs,
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and vessels attics, cellars and workrooms is not advisable.  
 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

#### Occupational Exposure limit values

Substance	Identification	Value	TWA Year
2-(2-Methoxypropoxy)propanol	CAS no.: 34590-94-8 Synonyms: Dipropylene glycol monomethyl ether	8-hour TWA: 600 mg/m <sup>3</sup> PEL / long-term Permissible Exposure Level / 8 hours (shift length) U.S. Occupational Safety and Health Standards 29 CFR 1900 Subpart Z Table Z-1 15 min.: 900 mg/m <sup>3</sup> REL / short-term Recommended Exposure Limit / 15 minutes Recommendations for Occupational Safety and Health - Compendium of Policy Documents and Statements. National Institute for Safety & Health (NIOSH) / USA	

#### DNEL / PNEC

Recommended monitoring procedures DFG Air Analysis: Method No. 3 Solvent mixtures.  
MTA/MA-017/A89: Determination of glycol ethers.  
MétroPol Fiche 022: Éthers de glycol.

### 8.2. Exposure controls

#### Precautionary measures to prevent exposure

Organizational 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.

#### Respiratory protection

Respiratory protection Under normal conditions of use respiratory protection should not be required. In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter (type 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 glasses where splashing is probable.

#### Skin protection

Skin protection (except hands) Generally regular work clothing sufficient.

**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.
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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	Liquid. Non-viscous.
Colour	Green.
Odour	Fresh.
Comments, pH (as supplied)	No data recorded.
pH (aqueous solution)	Value: 9,5-10,5
Boiling point / boiling range	Value: < 212 °F
Flash point	Value: > 200 °F
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: 8.32 Comments: unit: lb/gal (pound per gallon)
Solubility in water	Unlimited miscible
Comments, Decomposition temperature	No data recorded.
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	Value: 0,95 %

**Physical hazards**

Comments, Particle size	Technically not feasible.
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

Reactivity	Stable in normal conditions.
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**10.2. Chemical stability**

Stability	Stable under normal temperature conditions and recommended use.
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**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions	No hazardous reactions under regular storage and handlings conditions known.
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**10.4. Conditions to avoid**

Conditions to avoid	Heating.
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**10.5. Incompatible materials**

Materials to avoid	Strong acids.
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**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.
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**SECTION 11: Toxicological information****11.1. Information on toxicological effects****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.

### 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.
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

### 12.2. Persistence and degradability

Persistence and degradability	All organic components are considered biodegradable.
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### 12.3. Bioaccumulative potential

Bioaccumulative potential	The product is not bioaccumulating.
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### 12.4. Mobility in soil

Mobility	No data on possible environmental effects have been found.
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### 12.5. Results of PBT and vPvB assessment

PBT assessment results	This product does not contain any PBT or vPvB substances.
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### 12.6. Other adverse effects

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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Specify the appropriate methods of disposal	Dispose of waste and residues in accordance with local authority requirements. No specific disposal method required.
Relevant waste regulation	USA: Federal waste regulation: 40 CFR 261 Canada: Canadian Environmental Protection Act (CEPA 1999; s.s..1999, c.33) Part 7 Controlling Pollution and Managing Wastes. Mexico: Regulation of the General Law of Ecological Balance and Environmental Protection in Hazardous Waste.
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes

## 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**

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 No recommendation given.

**Additional information.**

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**

References (laws/regulations)

International Inventories

USA: All compounds are listed on the TSCA Inventory  
Canada: All components are listed either on the DSL or NDSL.

Regulations of the United States of America:

29 CFR 1910.1200, Subpart Z (Toxic and Hazardous Substances), App. A (Health Hazards), App B (Physical Criteria), App C (Allocation of Label Elements), App D (Minimum Information for a SDS), App E (Trade Secret), App F (Carcinogenicity).

US Federal Regulations:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories:

Acute Health Hazard Yes

Chronic Health Hazard No

Fire Hazard No

Sudden release of pressure hazard No



Reactive Hazard No

CWA (Clean Water Act):

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65:

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations:

This product does not contain any substances regulated by state right-to-know regulations.

Regulations of Canada:

Workplace Hazardous Materials Information System (WHMIS 2015), adoption to the Globally Harmonized System (GHS).

Hazardous Products Act (R.S.C., 1985, c.H-3), last amended Feb 11, 2015.

Hazardous Products Regulation (SOR / 2015-17), last amended Feb 11, 2015.

Regulations of Mexico:

Official Mexican Standard NMX-R-019-SCFI-2011, harmonized system of classification and hazard communication of chemicals [Globally Harmonized System (GHS)] (DOF, 29-VI-2011).

Official Mexican Standard NOM-018-STPS-2000, system for the identification and communication of hazards and risks from hazardous chemicals in the workplace (DOF. 27-X-2000).

## 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.
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Skin Irrit. 2; H315; Skin Sens. 1; H317; Eye Irrit. 2; H319;

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List of relevant H-phrases (Section 2 and 3).	H318 Causes Serious eye damage. H302 Harmful if swallowed. H331 Toxic if inhaled. H400 Very toxic to aquatic life. H315 Causes skin irritation. H335 May cause respiratory irritation. H314 Causes severe skin burns and eye damage. H301 Toxic if swallowed. H317 May cause an allergic skin reaction. H311 Toxic in contact with skin. H272 May intensify fire; oxidiser. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H319 Causes serious eye irritation.
Training advice	not relevant
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 Enterprises LLC