



MATERIAL SAFETY DATA SHEET

According to the European Parliament's and the Council regulations (ES) No.1907/2006 (REACH) and the Commission regulations (EU) no. 453/2010

Effective date: 29.1.2014

Revision date: 10. 2. 2015

Product name: **TWISTER DISHWASHING LIQUID**

Revision number: 1

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

1.1. Product identifier

Commercial product name: TWISTER DISHWASHING LIQUID LEMON

Chemical product name: -

Fragrance: Lemon

REACH Registration Number: does not apply to mixtures

Comment: Identification numbers of chemicals or hazardous constituents of a mixture see SECTION 3. Launch PBT and vPvB see SECTION 12

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

Use of the substance or mixture: Detergent for dishes.

Uses advised against: All other than the recommended use.

1.3. Details of the supplier of the safety data sheet

Supplier identification:

Business name: UNION COSMETIC spol. s r.o.

Address: V jirchářích 195/2, Nové Město, 110 00 Prague 1

ID: 25965841

Phone number: +420 495 592 228

E-mail: info@unioncosmetic.cz

Qualified person responsible for compiling a safety data sheet:

Business name: UNION COSMETIC spol. s r.o.

Address: V jirchářích 195/2, Nové Město, 110 00 Prague 1

Phone number: +420 495 592 228

E-mail: info@unioncosmetic.cz

1.4. Emergency telephone number

Medical Emergency Service CZ: 155

Fire Rescue Brigade CZ: 150

Police CZ: 158

Toxicological Information Centre:

Phone number: +420 224 919 293; +420 224 915 402

Headquarters: Klinika pracovního lékařství 1. LF UK a VFN, Na Bojišti 1, 120 00 Praha 2

SECTION 2. Hazard identification

2.1. Classification of the substance or mixture

2.1.1. Substance classification according to the Regulation no. (ES) 1272/2008 (CLP):

Serious eye damage Cat. 1

H318: Causes serious eye damage.

Hazardous to the aquatic environment (chronically) Cat. 4

H413: May cause long-lasting harmful effects to aquatic life

Additional information on the label:

EUH208: It contains (R)-P-menta-1,8-dien. May cause allergic reaction.



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2.1.2. Further information

The most serious physicochemical effects:

None known.

The most serious adverse effects on human health:

Causes serious eye damage.

In sensitive individuals may cause skin irritation.

The most serious adverse effects on the environment:

May cause long-lasting harmful effects to aquatic life

2.2. Label elements

Marking mixtures with the classification according to the Regulation (EC) 1272/2008:

The warning symbol



Signal word:

Warning!

H-phrases:

H318 Causes serious eye damage

H413 May cause long-lasting harmful effects to aquatic life

P-phrases:

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

P102 Keep out of reach of children.

P273 Avoid release to the environment

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.

P310 Immediately call a POISON CENTER /doctor/.

P501 Dispose of container contaminated of the product as hazardous waste.

Additional information for packaging / label:

EUH208: It contains (R)-P-menta-1,8-dien. May cause allergic reaction.

Contains: sodium 2-(2-dodecyloxyethoxy)ethyl sulphate, Sodium dodecylbenzenesulfonate, (R)-P-menta-1,8-diene

2.3 Other hazards:

None known.

SECTION 3. Composition/information on ingredients

3.1. Substances

This product is not a substance

Name of chemical:

Further identifiable information hazardous substances:

1) Identification no. 2) CAS 3) ES 4) Registration no.	Chemical name	Concentration [% hm.]	Classification according to ES 1272/2008
-	-	-	-

3.2. Mixtures

Name of the mixture:

TWISTER DISHWASHING LIQUID

Description of the mixture:

Aqueous solution of Sodium Laureth Sulfate, Sodium dodecylbenzenesulfonate, Sodium Chloride, perfume and other additives.



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Further identifying information hazardous substances:

1) Identification no. 2) CAS 3) ES 4) Registration no.	Chemical name	Concentration [% hm.]	Classification according to ES 1272/2008
1) Unallocated 2) 68891-38-3 3) 500-234-8 4) 01-2119488639-16-0020	sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	< 6	Skin irritation Cat. 2 (H315), Serious eye damage Cat.1 (H318)
1) Unallocated 2) 68411-30-3 3) 270-115-0 4) 01-2119489428-22-XXXX	Sodium dodecylbenzene-sulfonate	< 3	Acute toxicity cat. 4 (H302), Skin irritation Cat. 2 (H315), Serious eye damage Cat. 1 (H318)
1) 601-029-00-7 2) 5989-27-5 3) 227-813-5 4) 01-2119529223-47-XXXX	(R)-P-mentha-1,8-diene	< 0,17	Flammable liquids Cat.3 (H226), Skin irritation Cat. 2 (H315), Skin sensitization Cat. 1 (H317), Hazardous to the aquatic environment (acutely) Cat. 1 (H400), Hazardous to the aquatic environment (chronically) Cat.1 (H410)

* Full text of H-phrases, see Section 16.

SECTION 4. First aid measures

4.1. Description of first aid measures

General Information:

In the case of health problems seek medical attention. Symptomatic treatment. Do not allow the victim to get chilled.

Inhalation:

Transfer victim to fresh air and ensure that breathes. If irritation persists, seek medical attention.

Skin irritation:

Remove all contaminated clothing, wash all affected area with water and with soap if necessary. If skin irritation persists, seek medical attention immediately.

If in eyes:

A few minutes rinse cautiously with water. Remove contact lenses, if present and if it is easy to do. Continue rinsing with water for at least 15 minutes. Seek medical advice.

Ingestion:

If the person is conscious, give him drink larger amount of water. Do not induce vomiting! Seek medical advice.

Further information:

Further details about first aid, especially in more serious cases of injury a doctor may consult with the Toxicological information centre, **phone constantly:** +420 224 919 293, +420 224 915 402, fax +420 224 914 570.

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

Danger for the eyes:

Causes serious eye damage.

Danger in contact with skin:

May cause irritation at sensitive individuals.

Danger if swallowed:

None known.

Danger on inhalation:

None known.



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

See SECTION 4.1.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing:

Foam, dry chemical powder, carbon dioxide, water spray mist.

Unsuitable extinguishing agents:

None known.

5.2. Special hazards arising from the substance or mixture

In case of fire carbon dioxide, carbon monoxide and harmful gases and vapours may form.

5.3. Advice for firefighters

Fire-resistant clothing and insulating breathing device (EN 133).

5.4. Further information

None known.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For workers except staff intervening in case of emergency:

Wear appropriate personal protective equipment. Prevent to access by unauthorized persons.

6.1.2 For staff intervening in case of emergency:

Wear appropriate personal protective equipment to prevent contact with the product.

6.2. Environmental precautions

Avoid release to the soil and enters surface / groundwater.

6.3. Methods and material for containment and cleaning up

Methods to reducing leakage:

After using the product container tightly closed.

Methods to remove:

The spilled products pump / move into ready container. Smaller spills clean up using a suitable sorbent (sand, diatomaceous earth, soil etc.). The affected area is possible to finally re-cleanse by rinsing with clean water. Rinsing water can be drained into the sewer system, which is drained to the wastewater treatment plant. Remove in accordance with applicable waste regulations.

Disposal instructions see SECTION 13.

Further information:

None reported.

6.4. Reference to other sections

More details of information are given in SECTION 8. and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Do not smoke, drink or eat when handling the product. Wear appropriate personal protective equipment to avoid contact product with skin and eyes. Keep product away from foodstuffs, beverages and feed.



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7.2. Conditions for safe storage, including any incompatibilities

Keep covers well labelled and tightly closed. Protect them from damage. Store the product in original containers or in containers designed for this purpose in a cool, dry place. Keep out of the reach of children.

Materials unsuitable for covers: None reported.

Incompatible materials: Acids, bases, oxidizing agents.

7.3. Specific end use(s)

See SECTION 1.2.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

The product does not contain substances for which the exposure limit PEL and NPK are set in accordance with Regulation No. 361/2007 Coll., in the amended and effective.

substance	CAS number	PEL	NPK-P
		mg.m ⁻³	
-	-	-	-

Control parameters for Sodium 2-(2-dodecyloxyethoxy)ethyl sulphate:

Workers - long-term exposure

DNEL(Inhalation, systemic effects): 175 mg/m³

DNEL(Dermal, systemic effects): 2750 mg/kg bw/day

Common population - Long-term exposure

DNEL(Inhalation, systemic effects): 52 mg/m³

DNEL(Dermal, systemic effects): 1650 mg/kg bw/day

DNEL(Oral, systemic effects): 15 mg/kg bw/day

PNEC(aquatic environment, fresh water): 0,24 mg/l

PNEC(aquatic environment, salt water): 0,024 mg/l

PNEC(aquatic environment, fresh water - sediment): 5,45 mg/kg

PNEC(aquatic environment, salt water - sediment): 0,545 mg/kg

PNEC(soil): 7,5 mg/kg dry soil

Control parameters for Sodium dodecylbenzenesulfonate:

Workers - long-term exposure

DNEL(Inhalation, systemic effects): 12 mg/m³

DNEL(Dermal, systemic effects): 170 mg/kg bw/day

Common population - Long-term exposure

DNEL(Inhalation, systemic effects): 3 mg/m³

DNEL(Dermal, systemic effects): 85 mg/kg bw/day

DNEL(Oral, systemic effects): 0,85 mg/kg bw/day

PNEC(aquatic environment, fresh water): 0,268 mg/l

PNEC(aquatic environment, salt water): 0,0268 mg/l

PNEC(aquatic environment, fresh water - sediment): 8,1 mg/kg

PNEC(aquatic environment, salt water - sediment): 8,1 mg/kg

PNEC(soil): 35 mg/kg dry soil

8.2. Exposure controls

Do not eat, drink or smoke in an area where someone works with the product. After the work always thoroughly wash and treat the skin with a suitable cream. Remove contaminated clothing and wash before reuse.



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Individual protection measures including personal protective equipment:

Eye and face protection:

Tightly fitting safety goggles - only for industrial use / professional use.

Skin protection:

Suitable protective gloves - only for industrial use / professional use.

The glove material has to be impermeable and resistant to the product (eg. PVC, nitrile rubber).

Protective clothing, footwear.

Respiratory protection:

Not required during recommended use.

Thermal hazard:

None known.

Exposure controls for the environment:

Do not discharge into surface / ground water or soil.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	liquid
Colour:	yellow
Odour:	according fragrance
Odour Threshold:	not determined
pH:	5,0 – 7,0 undiluted at 20 °C
Melting point / Freezing point:	not determined
Initial boiling point and boiling range:	100 °C
Flash-point:	> 100 °C
Evaporation rate:	not determined
Flammability (solid, gas):	not flammable
Upper / lower limits of flammability or explosive:	not determined
Vapor pressure:	not determined
Vapor density:	not determined
Density:	1,00 – 1,03 g/cm ³ at 20 °C
Solubility:	in water: soluble
Partition coefficient n-octanol / water:	not determined
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
Viscosity:	1000 - 3000 mPas
Explosive characteristics:	not determined
Oxidation characteristics:	not determined

9.2. Further information:

Not determined.

SECTION 10. Stability and reactivity

10.1. Reactivity

The product is stable under normal conditions.

10.2. Chemical stability

The product is stable under normal application conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions is not known.



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10.4. Conditions to avoid

Not known

10.5. Incompatible materials

Acids, bases, oxidizing agents.

10.6. Hazardous decomposition products

In case of fire carbon dioxide, carbon monoxide and harmful gases and vapours may form.

ODDÍL 11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity:	Not determined.
Causticity / skin irritation:	Not determined.
Serious eye damage / eye irritation:	Causes serious eye damage.
Respiratory or skin sensitization:	Not determined.
Germ cell mutagenicity:	Not determined.
Carcinogenicity:	Not determined.
Reproductive toxicity:	Not determined.
Toxicity for specific target organs (STOT) – single exposure:	Not determined.
Toxicity for specific target organs (STOT) – repeated exposure:	Not determined.
Aspiration hazard:	Not determined.

Information on likely routes of exposure:

Dermal exposure.

Symptoms related to the physical, chemical and toxicological characteristics:

Not known.

Delayed and immediate effects and also chronic effects of short and long term exposure:

Not known.

ODDÍL 12. Ecological information

12.1. Toxicity

At the recommended normal use are not known any adverse effects on the function of water purifier. The product is not considered harmful to aquatic organisms and do not have any long-term adverse impact on the environment.

Acute toxicity is determined for:

Sodium Laureth Sulfate

LC₅₀ (Danio rerio) = 7,1 mg/l/96 hour
EC₅₀ (Daphnia magna) = 7,2 mg/l/48 hour
EC₅₀ (Desmodesmus subspicatus) = 27 mg/l/72 hour

Sodium dodecylbenzenesulfonate

LC₅₀ (Lepomis macrochirus) = 1,67 mg/l/96 hour
LC₅₀ (Hyelella azteca) = 3,5 mg/l/96 hour
NOEC (Chlorella kessleri) = 3,1 mg/l/15 days

12.2. Persistence and degradability

The surfactant/s contained in this product is/are in accordance with the biodegradability criteria according to Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are available to competent authorities of the Member States, at their direct request or at the request of a detergent manufacturer.

The final biodegradability of the main components of the mixture is > 60% after 28 days

12.3. Bioaccumulative potential

Not determined.

Partition coefficient n-octanol / water (log Kow): -

Bioconcentration factor (BCF): -



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12.4. Mobility in soil

Not determined.

The product is soluble in water. As fluid it can soak into the soil.

12.5. Results of PBT and vPvB assessment

Not PBT or vPvB.

12.6. Other hazardous effects

Do not discharge into surface / ground water.

ODDÍL 13. Disposal considerations

13.1. Waste treatment methods

Methods of disposal of substances: The product must be disposed of in accordance with the Act on waste as amended and effective, and related regulations as hazardous waste.

Recommended classification:

20 01 29* Detergents containing dangerous substances

Methods of disposal of contaminated packaging: Contaminated packaging must be disposed of in accordance with the Act on waste as amended and effective and related regulations as hazardous waste. If the package is flushed with plenty of clean water it can be recycled.

Other information: All waste must be transmitted to the entity which is authorized to dispose of them. Designation of the waste must correspond with valid IDs listed in the catalogue of waste.

ODDÍL 14. Transport information

14.1. UN number

Product is not a hazardous for transport.

Marking ADR/RID, IMDG, ITA-DGR: -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

-

ODDÍL 15. Regulatory information

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

EC Regulation 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals in the amended and effective.

Commission Regulation (EU) No. 453/2010 amending Regulation of the European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)



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Regulation of the European Parliament and Council Regulation (EC) 1272/2008 on classification, labeling and packaging of substances and mixtures, the amended and effective.

Decree No. 361/2007 laying down the health conditions in the workplace, as amended and effective.

Act No. 185/2001 Coll., on waste, as amended and effective

Decree No. 376/2001 Coll., on classification of hazardous waste in the amended and effective

Decree No. 381/2001 Coll., The Waste Catalogue, as amended and effective

Decree No. 383/2001 Coll., on details of waste management in the amended and effective

Decree No. 237/2002 Coll., on details of how to perform the return of some products in the amended and effective

15.2. Chemical safety assessment

For the mixture was not carried out.

ODDÍL 16. Other information

Full text of H-phrases referred to under sections 2 and 3:

- H226 Flammable liquid and vapour
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long-lasting effects
- H413 May cause long-lasting harmful effects to aquatic life

Full text of P-phrases referred to under sections 2 and 3:

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P273 Avoid release to the environment.
- 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.
- P310 Immediately call a POISON CENTER /doctor/.
- P501 Dispose of container contaminated of the product as hazardous waste.

Other identification data of hazardous substances:

Instructions for training:

Inform the employee of the contents of this safety data sheet with the general rules for handling chemical substances and mixtures. Training performed 1x per year.

The information in this SDS is based on the knowledge and experience of the manufacturer of the date of issue of this document. They do not represent any contractual guarantee qualitative characteristics of the product and are valid only in conjunction with the prescribed handling under normal conditions and with specified information in the technical manual. For any other use of this product eventually in combination with other products or procedures is responsible the user himself.

References for compiling the data sheet:

MSDS TWISTER Dishwashing liquid, 29st January 2014, supplier Union Cosmetic s.r.o.

Safety Data Sheets of feedstock.

Database of registered substances ECHA at the day 10. 2. 2015

Existing legislation



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There were made changes in all sections of the safety data sheet by Revision no. 1.

Mentioned abbreviations:

PNEC	Predicted concentration with no effect
CSR	Chemical Safety Report
DMEL	Derived level, which cause minimal adverse effects on health at.
DNEL	Derived level, which not cause minimal adverse effects on health at.
NPK-P	Maximum allowable concentration
PBT	Persistent, bioaccumulative and toxic
PEL	Permissible exposure limit
vPvB	Very persistent and very bioaccumulative