



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: 12.9.2009

Revision date: 26.6.2015

Revision number: 2

Product name: **TWISTER WC GEL**

Page 1 of 9

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

1.1. Product identifier

Commercial product name: TWISTER WC GEL FRESH PINE

Chemical product name: -

Fragrance: Pine

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: Cleaning agent for WC

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. 2

H319: Causes serious eye irritation.

2.1.2. Further information

The most serious physicochemical effects:

None known.

The most serious adverse effects on human health:

None known.



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No.1907/2006 (REACH) and the Commission regulations (EU) no. 453/2010
Effective date: 12.9.2009
Revision date: 26.6.2015
Product name: **TWISTER WC GEL**

Revision number: 2

Page 2 of 9

The most serious adverse effects on the environment:

None known.

2.2. Label elements

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

The warning symbol



Signal word:

Warning!

H-phrases:

H319 Causes serious eye irritation

P-phrases:

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

P102 Keep out of reach of children.

P264 Wash by water thoroughly after handling

P280 Wear protective gloves.

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.

Additional information for packaging / label:

Contains: Ethanol, sodium 2-(2-dedocyloxyethoxy)ethyl sulphate

2.3 Other hazards:

None known.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Name of the mixture: TWISTER WC GEL

Description of the mixture: The acidic solution of anionic surfactant and excipients.

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) 603-002-00-5 2) 64-17-5 3) 200-578-6 4) Unallocated	Ethanol	≤4	Flammable liquids Cat.2 (H225) Eye irritation Cat. 2 (H319),
1) Unallocated 2) 68891-38-3 3) 500-234-8 4) Unallocated	sodium 2-(2-dedocyloxyethoxy)ethyl sulphate	≤2,6	Skin irritation Cat. 2 (H315), Serious eye damage Cat. 1 (H318)
1) Unallocated 2) 5949-29-1 3) Unallocated 4) Unallocated	2-Hydroxy-1,2,3-propanetricarboxylic acid	<1	Eye irritation Cat. 2 (H319)

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



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Effective date: 12.9.2009

Revision date: 26.6.2015

Product name: **TWISTER WC GEL**

Revision number: 2

Page 3 of 9

SECTION 4. First aid measures

4.1. Description of first aid measures

General Information:

When any health complications become evident or in case of doubt, notify your physician and give him information from this data sheet. If the victim is unconscious, place him in a stabilized lateral position (on the side), with head slightly tilted backwards, and make sure his air passages are clear. Do not cause vomiting. If the afflicted person vomits, make sure he does not breathe in the emesis.

Inhalation:

Transfer victim to fresh air and ensure physical and mental rest. Do not allow the victim to get cold. If irritation persists, seek medical attention.

Skin irritation

Remove all contaminated clothing, rinse all affected area with warm water and wash 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 under running water with violently eyelids open for at least 15 minutes. Seek medical advice.

Ingestion:

Place the victim in peace. Rinse mouth with water (only if the affected person is conscious) Never induce vomiting. Seek medical advice immediately and show the container or label.

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:

Not stated

Danger in contact with skin:

Not stated

Danger if swallowed:

Not stated

Danger on inhalation:

Not stated

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.
Breathing in hazardous disintegrative (pyrolysis) products can cause serious health damage.

5.3. Advice for firefighters

Insulating breathing device



MATERIAL SAFETY DATA SHEET

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No.1907/2006 (REACH) and the Commission regulations (EU) no. 453/2010

Effective date: 12.9.2009

Revision date: 26.6.2015

Product name: **TWISTER WC GEL**

Revision number: 2

Page 4 of 9

5.4. Further information

None known.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment to prevent contact with the product. Follow the instructions contained in chapters 7 and 8.

6.2. Environmental precautions

Avoid release to the soil and enters surface / groundwater. Not admit entry into sewers.

6.3. Methods and material for containment and cleaning up

Methods to reducing leakage:

After using the product container tightly closed.

Methods to remove:

Cover product with suitable (inflammable) absorbent material (sand, infusorial earth, dirt and such), collect into tightly closed containers and remove as hazardous material. Dispose of collected material according to your local lawful directive. After the agent removal, wash the contaminated area with plenty of water or with other suitable cleaner. Do not use dissolving agents.

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 inhale vapours. Avoid contact with skin and eyes. Use personal protective equipment in accordance with Section 8. Observe the valid laws of legislations on occupational safety and health.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly enclosed containers in designated places. Store out of reach of children, separately from food items, drinks and feed. Keep at temperatures from 5°C to 35°C.

Materials unsuitable for covers: Handling should not execute allergy sufferers.

Incompatible materials: Acids, bases, oxidizing agents.

7.3. Specific end use(s)

Protect from frost and direct sunlight.

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	
Ethanol	64-17-5	3000	1000



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Effective date: 12.9.2009

Revision date: 26.6.2015

Product name: **TWISTER WC GEL**

Revision number: 2

Page 5 of 9

8.2. Exposure controls

Observe usual precautions for the protection of health during at work.

Individual protection measures including personal protective equipment:

Eye and face protection:

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

Skin protection:

Hand protection: Protective gloves (based on the job description). Other protection: Protective clothing. In case of skin pollution, wash the area thoroughly.

Respiratory protection:

Not required during recommended use.

Thermal hazard:

None known.

Exposure controls for the environment:

Follow usual precautions for environmental protection, see point 6.2.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	liquid
Colour:	green
Odour:	according fragrance
Odour Threshold:	not determined
pH:	2,5 - 4,0 undiluted at 20 °C
Melting point / Freezing point:	0 °C
Initial boiling point and boiling range:	> 100 °C
Flash-point:	> 100 °C
Evaporation rate:	not determined
Flammability (solid, gas):	not determined
Upper / lower limits of flammability or explosive:	not determined
Vapor pressure:	not determined
Vapor density:	not determined
Density:	1,05 – 1,10 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:	not determined
Explosive characteristics:	not determined
Oxidation characteristics:	not determined

9.2. Further information:

Content of organic solvent (VOC)	0,04kg/kg
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SECTION 10. Stability and reactivity

10.1. Reactivity

Not stated

10.2. Chemical stability

Not stated.

10.3. Possibility of hazardous reactions

Keep away from bases and oxidizers. This prevents the formation of a hazardous exothermic reaction.



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No.1907/2006 (REACH) and the Commission regulations (EU) no. 453/2010

Effective date: 12.9.2009

Revision date: 26.6.2015

Product name: **TWISTER WC GEL**

Revision number: 2

Page 6 of 9

10.4. Conditions to avoid

In normal use the product is stable and does not degrade.

10.5. Incompatible materials

Not known.

10.6. Hazardous decomposition products

Do not arise under normal use. Hazardous decomposition products are formed at high temperatures and at fires.

ODDÍL 11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Ethanol denat.

LD50, oral, rat or rabbit 13300 mg.kg-1

Citric acid monohydrate

LD50 oral, rat or rabbit 673 mg.kg-1

Causticity / skin irritation:

Prolonged or repeated contact with the mixture leads to a degreasing and drying of the skin.

The mixture can also be absorbed intact skin.

Serious eye damage / eye irritation:

Eye contact may cause irritation.

Respiratory or skin sensitization:

Inhalation of solvent vapours above values exceeding the NPK-P limit may result in irritation of mucous membranes and respiratory paths. There are the following symptoms: Headache, dizziness, fatigue, general weakness.

Germ cell mutagenicity:

Not determined.

Carcinogenicity:

The mixture is set, component mixtures do not have a carcinogenic effect.

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:

Not known.

Symptoms related to the physical, chemical and toxicological characteristics:

When used according to instructions and adherence to the principles of personal hygiene they were not observed adverse effects in humans. Not determined for the mixture, blend components do not cause chronic poisoning.

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

Not known.

ODDÍL 12. Ecological information

12.1. Toxicity

Not stated

12.2. Persistence and degradability

Biodegradability: more than 89% / 28 days in accordance with Regulation 648/2004, Annex. III, Point B, the OECD method 301A.



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Revision date: 26.6.2015

Revision number: 2

Product name: **TWISTER WC GEL**

Page 7 of 9

12.3. Bioaccumulative potential

Insignificant.

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

Bioconcentration factor (BCF): -

12.4. Mobility in soil

The product is soluble and mobile in the water and soil. Contamination of river beds is possible in case of rain.

12.5. Results of PBT and vPvB assessment

Not PBT or vPvB.

12.6. Other hazardous effects

Not stated.

ODDÍL 13. Disposal considerations

13.1. Waste treatment methods

Methods of disposal of substances: Follow the regulation Act No. 185/2001 Coll. about waste and according to waste disposing regulations.

Methods of disposal of contaminated packaging: Follow the regulation regarding special packaging removal at a secured waste disposal site for such wastes or in a combustion chamber for hazardous wastes. (Act No.185/2001 Coll.)

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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No.1907/2006 (REACH) and the Commission regulations (EU) no. 453/2010

Effective date: 12.9.2009

Revision date: 26.6.2015

Revision number: 2

Product name: **TWISTER WC GEL**

Page 8 of 9

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:

H225 Highly flammable liquid and vapour

H315 Causes skin irritation

H318 Causes serious eye damage

H319 Causes serious eye irritation

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.

P264 Wash by water thoroughly after handling

P280 Wear protective gloves.

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.

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 WC gel, 12th September 2009, supplier Union Cosmetic s.r.o.

Safety Data Sheets of feedstock.

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

Existing legislation

There were made changes in all sections of the safety data sheet by Revision no. 2.



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Page 9 of 9

Mentioned abbreviations:

CAS	A unique numeric identifier, used in chemistry for chemical substances
CLP	Classification, labelling and packaging
ČSN	Czech technical standard
EC50	Concentration of substance at which 50% of the population is affected.
IC50	Concentration causing 50% blockage
LC50	Lethal concentration of the substance in which it can be expected to cause the death of 50% of the population
LD50	Lethal dose of a substance, in which can be expected to cause the death of 50% of the population
EINECS	European inventory of existing Commercial Chemical Substances
EmS	Emergency plan
ICAO	International Civil Aviation Organization
IATA	International Air Transport Association
IMDG	International maritime transport of dangerous goods
MFAG	First Aid guide
MARPOL	International Convention for the Prevention of Pollution from ships.
REACH	Registration, evaluation and Restriction of Chemicals – EP and Council Regulation (EC) No.1907/2006
PBT	Persistent, bioaccumulative and toxic
vPvB	Very persistent and very bioaccumulative
IBC	International Code for the construction and equipment of ships carrying Dangerous Chemicals
NPK	Highest available concentration
PEL	Permissible exposure limit