

SAFETY DATA SHEET

TwoInOne

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

1.1. Product identifier

Trade name

TwoInOne

Product no.

23008

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

Relevant identified uses of the substance or mixture

Cleaning product

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

lujoCLEAN - cleaning products for coffee machines

Weidenstraße 13

82386 Huglfing

Germany

Tel: +49 (0) 88 02 913 747 -0

Fax: +49 (0) 88 02 913 747 -1

www.lujoclean.com

E-mail

info@lujoclean.com

Revision

17/02/2023

SDS Version

1.0

1.4. Emergency telephone number

Tel. +49 89 96290-441

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP).

2.2. Label elements

Hazard pictogram(s)

Not applicable.

Signal word

Not applicable.

Hazard statement(s)

Not applicable.

Safety statement(s)

General

Keep out of reach of children. (P102)

Prevention

-

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

If eye irritation persists: Get medical advice/attention. (P337+P313)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Storage

-

Disposal

-

Hazardous substances

None known.

Additional labelling

EUH210, Safety data sheet available on request.

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Citric acid	CAS No.: 77-92-9 EC No.: 201-069-1 REACH: 01-2119457026-42-XXXX Index No.:	1-5%	Eye Irrit. 2, H319 STOT SE 3, H335	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

Labelling of contents according to Detergents Regulation (EC) No 648/2004

< 5%

- Non-ionic surfactants
- Phosphonates

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person’s condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

Eye contact

Upon irritation of the eye: Remove contact lenses and open eyes widely. Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Seek medical assistance and continue flushing during transport.

Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Not applicable.

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

None known.

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

None known.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO₂)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the National Poisons Information Centre (NPIC) on +353 (0) 1 809 256 (24 h service) in order to obtain further advice.

Fire fighters should wear appropriate personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Keep only in original packaging.

Storage temperature

Room temperature 15 to 25°C

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

8.1. Control parameters

Propane-1,2-diol

Long term exposure limit (8 hours) (mg/m³): 470 (total (vapour and particulates)) / 10(particulates)

Long term exposure limit (8 hours) (ppm): 150 (total (vapour and particulates))

2021 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019).

DNEL

Propane-1,2-diol

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	10 mg/m ³
Long term – Local effects - Workers	Inhalation	10 mg/m ³
Long term – Systemic effects - General population	Inhalation	50 mg/m ³
Long term – Systemic effects - Workers	Inhalation	168 mg/m ³

PNEC

Propane-1,2-diol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		260 mg/L
Freshwater sediment		572 mg/kg
Intermittent release (freshwater)		183 mg/L
Marine water		26 mg/L
Marine water sediment		57.2 mg/kg
Sewage treatment plant		20 g/L
Soil		50 mg/kg

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

8.3. Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards
Respiratory protection is not needed in the event of adequate ventilation.			

Skin protection

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Recommended	Type/Category	Standards	
No specific requirements.	-	-	
Hand protection			
Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
No special when used as intended	-	-	-
Eye protection			
Type	Standards		
Safety glasses with side shields.	EN166		



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Turquoise

Odour / Odour threshold

Faint

pH

3,2

Density (g/cm³)

1.02

Kinematic viscosity

<10 mm²/s

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

<0

Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

Boiling point (°C)

100

Vapour pressure

Testing not relevant or not possible due to the nature of the product.

Relative vapour density

Testing not relevant or not possible due to the nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to the nature of the product.

Flammability (°C)

The material is not combustible.

Auto-ignition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to the nature of the product.

Solubility

Solubility in water

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Completely soluble

n-octanol/water coefficient

Testing not relevant or not possible due to the nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

9.2. Other information

VOC (g/L)

75

Other physical and chemical parameters

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	Propane-1,2-diol
Test method:	
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	22000 mg/kg
Other information:	

Product/substance	Propane-1,2-diol
Test method:	
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kg
Other information:	

Product/substance	Citric acid
Test method:	OECD 401
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	5400 mg/kg
Other information:	

Product/substance	Citric acid
Test method:	OECD 401
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	11700 mg/kg

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Other information:

Product/substance Citric acid
 Test method: OECD 402
 Species: Rat
 Route of exposure: Dermal
 Test: LD50
 Result: >2000 mg/kg
 Other information:

Skin corrosion/irritation

Product/substance Propane-1,2-diol
 Test method:
 Species:
 Duration:
 Result: No adverse effect observed (Not irritating)
 Other information:

Product/substance Propane-1,2-diol
 Test method:
 Species:
 Duration:
 Result: No adverse effect observed (Not corrosive)
 Other information:

Product/substance Citric acid
 Test method: OECD 404
 Species: Rabbit
 Duration:
 Result: No adverse effect observed (Not irritating)
 Other information:

Serious eye damage/irritation

Product/substance Propane-1,2-diol
 Test method:
 Species:
 Duration:
 Result: No adverse effect observed (Not irritating)
 Other information:

Product/substance Propane-1,2-diol
 Test method:
 Species:
 Duration:
 Result: No adverse effect observed (Not corrosive)
 Other information:

Product/substance Citric acid
 Test method: OECD 405
 Species: Rabbit
 Duration:
 Result: Adverse effect observed (Irritating)
 Other information:

Respiratory sensitisation

Product/substance Propane-1,2-diol
 Test method:
 Species:
 Result: No adverse effect observed (not sensitising)
 Other information:

Product/substance Citric acid
 Test method:
 Species:
 Result: No adverse effect observed (not sensitising)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Other information:

Skin sensitisation

Product/substance: Propane-1,2-diol
 Test method:
 Species:
 Result: No adverse effect observed (not sensitising)
 Other information:

Germ cell mutagenicity

Product/substance: Propane-1,2-diol
 Test method:
 Species:
 Conclusion: No adverse effect observed
 Other information:

Product/substance: Citric acid
 Test method: OECD 475
 Species: Rat
 Conclusion: No adverse effect observed
 Other information:

Product/substance: Citric acid
 Test method: OECD 471
 Species: Bacteria, S. typhimurium
 Conclusion: No adverse effect observed
 Other information:

Carcinogenicity

Product/substance: Propane-1,2-diol
 Test method:
 Species:
 Route of exposure:
 Target organ:
 Duration:
 Test:
 Result:
 Conclusion: No adverse effect observed
 Other information:

Product/substance: Citric acid
 Test method:
 Species:
 Route of exposure:
 Target organ:
 Duration:
 Test:
 Result:
 Conclusion: No adverse effect observed
 Other information:

Reproductive toxicity

Product/substance: Propane-1,2-diol
 Test method:
 Species:
 Duration:
 Test:
 Result:
 Conclusion: No adverse effect observed
 Other information:

Product/substance: Citric acid
 Test method:
 Species:
 Duration:
 Test:

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result:
 Conclusion: No adverse effect observed
 Other information:

STOT-single exposure

Product/substance Propane-1,2-diol
 Test method:
 Species:
 Route of exposure:
 Target organ:
 Duration:
 Test:
 Result:
 Conclusion: No adverse effect observed
 Other information:

STOT-repeated exposure

Product/substance Propane-1,2-diol
 Test method:
 Species:
 Route of exposure:
 Target organ:
 Duration:
 Test:
 Result:
 Conclusion: No adverse effect observed
 Other information:

Product/substance Citric acid
 Test method:
 Species: Rat
 Route of exposure:
 Target organ:
 Duration: 7 days
 Test: NOAEL
 Result: 4000 mg/kg
 Conclusion:
 Other information:

Product/substance Citric acid
 Test method:
 Species: Rat
 Route of exposure:
 Target organ:
 Duration: 7 days
 Test: LOAEL
 Result: 8000 mg/kg
 Conclusion:
 Other information:

Aspiration hazard

Product/substance Propane-1,2-diol
 Kin. viscosity (mm²/s):
 Test:
 Conclusion: Aspiration hazard not applicable
 Other information:

11.2. Information on other hazards

Long term effects

None known.

Endocrine disrupting properties

Product/substance Propane-1,2-diol
 Test method:
 Species:
 Duration:
 Test:
 Result:

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Conclusion: No adverse effect observed
 Other information:

Other information
 None known.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance: Propane-1,2-diol
 Test method:
 Species: Crustacean, Daphnia magna
 Compartment:
 Duration: 48 hours
 Test: EC50
 Result: 34400 mg/L
 Other information:

Product/substance: Propane-1,2-diol
 Test method:
 Species: Fish
 Compartment:
 Duration: 96 hours
 Test: LC50
 Result: 40613 mg/L
 Other information:

Product/substance: Propane-1,2-diol
 Test method:
 Species: Algae
 Compartment:
 Duration: 48 hours
 Test:
 Result: 34100 mg/L
 Other information:

Product/substance: Citric acid
 Test method: OECD 203
 Species: Fish, Leuciscus idus
 Compartment:
 Duration: 96 hours
 Test: LC50
 Result: 440-706 mg/L
 Other information:

Product/substance: Citric acid
 Test method: OECD 202
 Species: Crustacean, Daphnia magna
 Compartment:
 Duration: 24 hours
 Test: EC50
 Result: 1535 mg/L
 Other information:

Product/substance: Citric acid
 Test method:
 Species: Algae, Scenedesmus quadricauda
 Compartment:
 Duration:
 Test: EC5
 Result: 640 mg/L
 Other information:

Product/substance: Citric acid

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Test method:
 Species: Algae, Scenedesmus quadricauda
 Compartment:
 Duration: 7 days
 Test: NOEC
 Result: 425 mg/L
 Other information:

Product/substance Citric acid
 Test method:
 Species: Bacteria, Pseudomonas putida
 Compartment:
 Duration: 16 hours
 Test:
 Result: >10000 mg/L
 Other information:

12.2. Persistence and degradability

Product/substance Propane-1,2-diol
 Biodegradable: Yes
 Test method:
 Result:

Product/substance Citric acid
 Biodegradable: Yes
 Test method: OECD 301 E
 Result: 100

12.3. Bioaccumulative potential

Product/substance Propane-1,2-diol
 Test method:
 Potential bioaccumulation: No
 LogPow: -1,07
 BCF: No data available.
 Other information:

Product/substance Citric acid
 Test method:
 Potential bioaccumulation: No
 LogPow: (-1,8)-(-0,2)
 BCF: No data available.
 Other information:

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties

Not applicable.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

Waste treatment methods

Product is not covered by regulations on dangerous waste.
 Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

20 01 29* Detergents containing dangerous substances
 07 06 01* Aqueous washing liquids and mother liquors
 20 01 30 Detergents other than those mentioned in 20 01 29

Specific labelling

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

No special.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

Additional information

Not applicable.

Sources

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H319, Causes serious eye irritation.

H335, May cause respiratory irritation.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

Not applicable.

The safety data sheet is validated by

QM lujoCLEAN

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: IE-en