



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

1.1 Product identifier

Trade name: Industriereiniger L12

UFI: 8YJ0-508D-X00C-3T9R

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

General use: Cleaning agent
Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company name: EUROTECH Maier Ernst GmbH

Street/POB-No.: Herrschaftswiesen 5

Postal Code, city: AT-6842 Koblach

WWW: www.eurotech.at

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Department responsible for information:

Telephone: +43 (0)5523 53852, Email: office@eurotech.at

1.4 Emergency telephone number

GIZ-Nord, Göttingen
Telephone: +49 551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Eye Dam. 1; H318 Causes serious eye damage.

2.2 Label elements

Labelling (CLP)

Signal word: **Danger**

Hazard statements: H318 Causes serious eye damage.

Precautionary statements: P264 Wash hands and face thoroughly after handling.
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.

Special labelling

Text for labelling: Contains: Isotridecanol, ethoxylated
Labelling for contents according to regulation (EC) No 648/2004, annex VII:
less than 5% phosphates
5-15% non-ionic surfactants
Perfumes, fragrances, Citral



2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions

Hazardous ingredients:

Identifiers	Designation Classification	Content
EC No. 203-905-0 CAS 111-76-2	2-Butoxyethanol Acute Tox. 4; H302. Acute Tox. 4; H312. Acute Tox. 4; H332. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Acute toxicity estimate (ATE): Oral: 1200 mg/kg bw.	< 5 %
EC No. 500-241-6 CAS 69011-36-5	Isotridecanol, ethoxylated Acute Tox. 4; H302. Eye Dam. 1; H318.	< 5 %

Full text of H- and EUH-statements: see section 16.

Additional information: Labelling for contents according to regulation (EC) No 648/2004, annex VII:
 Contains
 less than 5% phosphates
 5-15% non-ionic surfactants
 Perfumes, fragrances, Citral

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Take off immediately all contaminated clothing.

In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Make sure he/she is warm and comfortable. If victim is at risk of losing consciousness, position and transport on their side.

In the event of persistent symptoms seek medical treatment.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. Consult a doctor if skin irritation persists.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.

After swallowing: In case of swallowing, gastric irrigation with activated carbon as an additive. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage.



4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, Extinguishing powder, foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Fires in the immediate vicinity may cause the development of dangerous vapours.

In case of fire may be liberated: carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Use fine water spray to cool endangered containers. Contaminated fire-fighting water must be collected separately. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid the formation of aerosol. Do not breathe vapour/aerosol. Avoid contact with skin, eyes, and clothing.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.

6.3 Methods and material for containment and cleaning up

Absorb spillage to prevent material damage.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. Apply neutralizing agents.

Never return spills in original containers for re-use.

Additional information:

Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Avoid the formation of aerosol. Do not breathe vapour/aerosol. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.

Take off immediately all contaminated clothing and wash it before reuse.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Work place should be equipped with a shower and an eye rinsing apparatus.



7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.
Protect from frost, heat and sunlight.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
111-76-2	2-Butoxyethanol	Europe: IOELV: STEL	246 mg/m ³ ; 50 ppm (may be absorbed through the skin)
		Europe: IOELV: TWA	98 mg/m ³ ; 20 ppm (may be absorbed through the skin)
		Ireland: 15 minutes	246 mg/m ³ ; 50 ppm (may be absorbed through the skin)
		Ireland: 8 hours	98 mg/m ³ ; 20 ppm (may be absorbed through the skin)

DNEL/DMEL:

Information about 2-(2-Butoxyethoxy)ethanol:

Systemic effects:

DNEL short-term, consumers, oral: 1.25 mg/kg/d

DNEL long-term, consumers, dermal: 10 mg/kg

DNEL long-term, workers, dermal: 20 mg/kg

DNEL long-term, consumers, inhalative: 34 mg/m³

DNEL short-term, workers, inhalative: 67.5 mg/m³

Local effects

DNEL long-term, consumers, inhalative: 34 mg/m³

DNEL long-term, workers, inhalative: 67.5 mg/m³

DNEL short-term, consumers, inhalative: 50.6 mg/m³

PNEC:

Information about 2-(2-Butoxyethoxy)ethanol:

PNEC water (freshwater): 1 mg/L

PNEC water (marine water): 0.1 mg/L

PNEC sediment (freshwater): 4 mg/kg dw

PNEC sediment (marine water): 0.4 mg/kg dw

PNEC soil: 0.4 mg/kg dwt

PNEC sewage treatment plant: 200 mg/L

PNEC water (occasional exposure): 3.9 mg/L

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

Personal protection equipment

Occupational exposure controls

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Respiratory protection must be worn whenever the WEL levels have been exceeded.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection:

Protective gloves according to EN 374.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.



Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Do not breathe vapour/aerosol. Do not get in eyes, on skin, or on clothing. Take off immediately all contaminated clothing and wash it before reuse.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Keep away from food, drink and animal feedingstuffs.
Work place should be equipped with a shower and an eye rinsing apparatus.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	light yellow
Odour:	mild
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	not applicable
Decomposition temperature:	No data available
pH:	at 20 °C, 10 g/L: 9.4
Viscosity, kinematic:	at 20 °C: 9.2 mm ² /s (DIN 532114)
Water solubility:	completely miscible
Partition coefficient: n-octanol/water:	at 25 °C: 0.81 log P(o/w) (2-(2-Butoxyethoxy)ethanol) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Vapour pressure:	No data available
Density:	at 20 °C: 1.03 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	Product is not explosive.
Auto-ignition temperature:	Not self-igniting
Evaporation rate:	No data available
Additional information:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to 10.3

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

**10.4 Conditions to avoid**

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No hazardous decomposition products known.

Thermal decomposition:

No data available

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

ATEmix (calculated): $2000 \text{ mg/kg} < \text{ATE} \leq 5000 \text{ mg/kg}$

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

ATEmix (calculated): $\text{ATE} > 5000 \text{ mg/kg}$

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

ATEmix (vapour, calculated): $\text{ATE} > 20 \text{ mg/L}$.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye damage.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Inconclusive data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties: No data available

Other information:

Information about 2-(2-Butoxyethoxy)ethanol:

LD50 Rat, oral: 470 mg/kg

LD50 Rabbit, dermal: 1100 mg/kg

LC50, Rat, inhalative: 11 mg/L (vapour)

LC50, Rat, inhalative: 1.5 mg/L (Aerosol)

Information about Isotridecanol, ethoxylated:

LD50 Rat, oral: 500 mg/kg



SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about 2-(2-Butoxyethoxy)ethanol:
Fish toxicity:
LC50 *Lepomis macrochirus* (bluegill): 1490 mg/L/96h

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
at 25 °C: 0.81 log P(o/w) (2-(2-Butoxyethoxy)ethanol)
Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

General information: Do not allow to enter undiluted resp. in large quantities into surface water or into drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 20 01 29* = Detergents containing hazardous substances
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.
Do not dispose of with household waste. Do not empty into drains.

Package

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.
Recommended cleansing agent: Water, add detergent, if necessary.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR: not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR: not applicable

14.4 Packing group

ADR/RID, IMDG, IATA-DGR: not applicable



14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant: no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

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

National regulations - EC member states

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H302 = Harmful if swallowed.

H312 = Harmful in contact with skin.

H315 = Causes skin irritation.

H318 = Causes serious eye damage.

H319 = Causes serious eye irritation.

H332 = Harmful if inhaled.

Reason of change: General revision

Date of first version: 27/1/2017

Department issuing data sheet: see section 1: Department responsible for information



Abbreviations and acronyms:

- Acute Tox.: Acute toxicity
- ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- AS/NZS: Australian Standards/New Zealand Standards
- Bw: Body weight
- CAS: Chemical Abstracts Service
- CFR: Code of Federal Regulations
- CLP: Classification, Labelling and Packaging
- DMEL: Derived minimal effect level
- DNEL: Derived no-effect level
- EC: European Community
- EN: European Standard
- EQ: Excepted quantities
- EU: European Union
- Eye Dam.: Eye damage
- Eye Irrit.: Eye irritation
- IATA: International Air Transport Association
- IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
- IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- IMDG Code: International Maritime Dangerous Goods Code
- LC50: Median lethal concentration
- LD50: Lethal dose 50%
- log P(o/w): Partition coefficient: octanol/water
- MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
- OEL: Occupational Exposure Limit Value
- OSHA: Occupational Safety and Health Administration
- PBT: Persistent, bioaccumulative and toxic
- PNEC: Predicted no-effect concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
- Skin Irrit.: Skin irritation
- TLV: Threshold Limit Value
- TRGS: Technical Rules for Hazardous Substances
- vPvB: Very persistent and very bioaccumulative
- WEL: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.