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

1.1. Product identifier

Trade name/designation:

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Article No.:
219

UFI:
RKW4-1JP8-MMJG-F599

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

Use of the substance/mixture:
Cleaning agent

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Otto Oehme GmbH
FEA
Industriestr. 20
90584 Allersberg
Germany
Telephone: 09176/98050
Telefax: 09176/980555
E-mail: Info@Oehme-Lorito.de
Website: www.Oehme-Lorito.de

1.4. Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	H412: Harmful to aquatic life with long lasting effects.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:

GHS07
Exclamation mark

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Signal word: Warning

Hazard statements for health hazards	
H319	Causes serious eye irritation.

Hazard statements for environmental hazards	
H412	Harmful to aquatic life with long lasting effects.

Supplemental hazard information	
EUH208	Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Precautionary statements Prevention	
P280	Wear protective gloves and eye/face protection.

Precautionary statements Response	
P337 + P313	If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:
aqueous solution

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 112-34-5 **EC No.:** 203-961-6 **Index No.:** 603-096-00-8 **REACH No.:** 01-2119475104-44-XXXX	**2-(2-butoxyethoxy)ethanol** Eye Irrit. 2 (H319) **Warning**	1 – ≤ 10 weight-%
CAS No.: 34590-94-8 **EC No.:** 252-104-2	**(2-methoxymethylethoxy)propanol** Substance with a community workplace exposure limit.	1 – ≤ 10 weight-%
CAS No.: 64-17-5 **EC No.:** 200-578-6 **Index No.:** 603-002-00-5 **REACH No.:** 01-2119457610-43-XXXX	**ethanol** Eye Irrit. 2 (H319), Flam. Liq. 2 (H225) **Danger**	1 – ≤ 10 weight-%
CAS No.: 69011-36-5	**Isotridecanol,ethoxylated** Acute Tox. 4 (H302), Eye Dam. 1 (H318) **Danger**	1 – ≤ 5 weight-%
CAS No.: 126-92-1 **EC No.:** 204-812-8 **REACH No.:** 01-2119971586-23	**sodium etasulfate** Eye Dam. 1 (H318), Skin Irrit. 2 (H315) **Danger** **Specific concentration limit (SCL)** Eye Irrit. 2; H319: 10% ≤ C < 20%	0 – ≤ 5 weight-%
CAS No.: 142-16-5 **EC No.:** 205-524-5 **REACH No.:** 01-2119552449-30	**bis(2-ethylhexyl) maleate** Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), STOT RE 2 (H373) **Warning** M-factor (acute): 1 M-factor (chronic): 1	0 – < 0.5 weight-%
CAS No.: 78-93-3 **EC No.:** 201-159-0 **Index No.:** 606-002-00-3 **REACH No.:** 01-2119457290-43-XXXX	**butanone** Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) **Danger** EUH066	0 – < 0.1 weight-%

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:
Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:
After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion:
Rinse mouth. Get medical advice/attention if you feel unwell. Let 1 glass of water be drunken in little sips (dilution effect).

Self-protection of the first aider:
Use personal protection equipment.

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

Serious eye damage/eye irritation

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Adjust to the environment

Unsuitable extinguishing media:
There are no restrictions on extinguishing agents for this mixture

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:
In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

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

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:
Remove persons to safety.Special danger of slipping by leaking/spilling product.

Protective equipment:
Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:
Personal protection equipment: see section 8

6.2. Environmental precautions
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
For containment:
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections
Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information
Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Protective measures
Advices on safe handling:
Wear personal protection equipment (refer to section 8).

Advices on general occupational hygiene
When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions:
Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)
Industrial sector specific solutions:
Maintenance cleaner, contains solvents, unlabeled
GISCODE:
GU50

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	2-(2-butoxyethoxy)ethanol **CAS No.:** 112-34-5 **EC No.:** 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³)
IOELV (EU)	2-(2-butoxyethoxy)ethanol **CAS No.:** 112-34-5 **EC No.:** 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³)
IOELV (EU)	(2-methoxymethylethoxy)propanol **CAS No.:** 34590-94-8 **EC No.:** 252-104-2	① 50 ppm (308 mg/m³) ⑤ (may be absorbed through the skin)
WEL (GB)	(2-methoxymethylethoxy)propanol **CAS No.:** 34590-94-8 **EC No.:** 252-104-2	① 50 ppm (308 mg/m³) ⑤ (may be absorbed through the skin)
WEL (GB)	ethanol **CAS No.:** 64-17-5 **EC No.:** 200-578-6	① 1,000 ppm (1,920 mg/m³)
IOELV (EU)	butanone **CAS No.:** 78-93-3 **EC No.:** 201-159-0	① 200 ppm (600 mg/m³) ② 300 ppm (900 mg/m³)

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	butanone **CAS No.:** 78-93-3 **EC No.:** 201-159-0	① 200 ppm (600 mg/m³) ② 300 ppm (899 mg/m³)

8.1.2. Biological limit values
No data available

8.1.3. DNEL-/PNEC-values
No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls
No data available

8.2.2. Personal protection equipment

Eye/face protection:
Eye glasses with side protection EN 166

Skin protection:
Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

8.2.3. Environmental exposure controls
No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Colour: colourless
Odour: characteristic

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	≈ 11		
Melting point	*not determined*		
Freezing point	*not determined*		
Initial boiling point and boiling range	*not determined*		
Decomposition temperature	*not determined*		
Flash point	66 °C		
Evaporation rate	*not determined*		
Auto-ignition temperature	*not determined*		
Upper/lower flammability or explosive limits	> 1.3 – < 15 %		② Ethanol
Vapour pressure	*not determined*		
Vapour density	*not determined*		
Density	≈ 1 g/cm³	23 °C	
Relative density	*not determined*		
Bulk density	*not determined*		
Water solubility	miscible		
Partition coefficient: n-octanol/water	*not determined*		
Dynamic viscosity	*not determined*		

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Parameter	Value	at °C	① Method ② Remark
Kinematic viscosity	*not determined*		

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
Explosive mixtures with air are possible on intense heating.

10.2. Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions
Risk of ignition or formation of inflammable gases or vapors with: metals, light metals, metal alloys. It can develop: hydrogen. Violent reactions possible with: alkalis, metal oxides.
Oxidizing agent

10.4. Conditions to avoid
Avoid high temperatures or direct sunlight.

10.5. Incompatible materials
Aluminium

10.6. Hazardous decomposition products
No data available

SECTION 11: Toxicological information

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

2-(2-butoxyethoxy)ethanol **CAS No.:** 112-34-5 **EC No.:** 203-961-6
LD_{50} oral: 2,410 mg/kg (Mouse)
LD_{50} dermal: 2,764 mg/kg (Rabbit)
(2-methoxymethylethoxy)propanol **CAS No.:** 34590-94-8 **EC No.:** 252-104-2
LD_{50} oral: >5,000 mg/kg (Ratte) OECD 401
LD_{50} dermal: 9,510 mg/kg (rabbit) OECD Guideline 402 (Acute Dermal Toxicity)
Isotridecanol,ethoxylated **CAS No.:** 69011-36-5
LD_{50} oral: 300 – 2,000 mg/kg (Ratte)
LD_{50} dermal: >2,000 mg/kg (Ratte)
ethanol **CAS No.:** 64-17-5 **EC No.:** 200-578-6
LD_{50} oral: 10,470 mg/kg (Ratte)
LD_{50} dermal: >2,000 mg/kg (Kaninchen)
LC_{50} Acute inhalation toxicity (vapour): 51 mg/L 4 h (Ratte)
sodium etasulfate **CAS No.:** 126-92-1 **EC No.:** 204-812-8
LD_{50} oral: =2,840 mg/kg (Ratte)
LD_{50} dermal: >2,000 mg/kg (Ratte)

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

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

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Based on available data, the classification criteria are not met.

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Serious eye damage/irritation:
Causes serious eye irritation.

Respiratory or skin sensitisation:
Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

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

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

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

STOT-single exposure:
Based on available data, the classification criteria are not met.

STOT-repeated exposure:
Based on available data, the classification criteria are not met.

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

Additional information:
No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

2-(2-butoxyethoxy)ethanol **CAS No.:** 112-34-5 **EC No.:** 203-961-6
LC_{50}: 1,300 mg/L 4 d (Sonnenbarsch) OECD 203
EC_{50}: >100 mg/L 2 d (Daphnia magna)
ErC_{50}: 1,101 mg/L 3 d (Algae/water plant)
(2-methoxymethylethoxy)propanol **CAS No.:** 34590-94-8 **EC No.:** 252-104-2
LC_{50}: 10,000 mg/L 4 d (fish, fettköpfige Elritze)
EC_{50}: 1,919 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: 969 mg/L 4 d (Algae/water plant, Grünalge)
NOEC: >969 mg/L 4 d (Algae/water plant, Grünalge)
NOEC: 0.5 mg/L 21 d (crustaceans, Daphnia magna)
LC_{50}: >1,000 mg/L 4 d (fish, Poecilia reticulata)
LC_{50}: >1,000 mg/L 2 d (crustaceans, Crangon crangon) EPA OPP 72-3 (Estuarine/Marine Fish, Mollusk, or Shrimp Acute Toxicity Test)
LC_{50}: >1,000 mg/L 3 d (crustaceans, Crangon crangon) EPA OPP 72-3 (Estuarine/Marine Fish, Mollusk, or Shrimp Acute Toxicity Test)
LC_{50}: >1,000 mg/L 4 d (crustaceans, Crangon crangon) EPA OPP 72-3 (Estuarine/Marine Fish, Mollusk, or Shrimp Acute Toxicity Test)
EC_{50}: >969 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))
EC_{50}: >969 mg/L 4 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))
NOEC: 969 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))
NOEC: 969 mg/L 4 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))
LOEC: 0.5 mg/L 22 d (crustaceans, Daphnia magna)

Isotridecanol,ethoxylated **CAS No.:** 69011-36-5
LC_{50}: >1 – 10 mg/L 4 d (fish)
EC_{50}: >1 – 10 mg/L 2 d (crustaceans)
EC_{50}: >1 – 10 mg/L 3 d (Algae/water plant)
NOEC: >1 mg/L 21 d (crustaceans)
LC_{50}: >1 – 10 mg/L (fish, Daphnia magna)
LC_{50}: >1 – 10 mg/L (fish)
ethanol **CAS No.:** 64-17-5 **EC No.:** 200-578-6
LC_{50}: 5,012 mg/L 2 d (Algae/water plant, Ceriodaphnia dubia (Wasserfloh))
EC_{50}: 275 mg/L 3 d (Algae/water plant, Chlorella vulgaris) OECD- Prüfrichtlinie 201
sodium etasulfate **CAS No.:** 126-92-1 **EC No.:** 204-812-8
LC_{50}: >100 mg/L 4 d (fish, Brachydanio rerio)
LC_{50}: >100 mg/L 2 d (crustaceans, Daphnia Magna)
LC_{50}: >100 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)
NOEC: >1 mg/L 33 d (fish, pimephales promelas)
NOEC: >1 mg/L 21 d (crustaceans, Daphnia magna)
butanone **CAS No.:** 78-93-3 **EC No.:** 201-159-0
LC_{50}: 2,993 mg/L 4 d (fish, Pimephales promelas) OECD Prüfrichtlinie 203
EC_{50}: 308 mg/L 2 d (crustaceans, Daphnia magna) OECD-Prüfrichtlinie 202

Aquatic toxicity:
Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

ethanol **CAS No.:** 64-17-5 **EC No.:** 200-578-6
Biodegradation: Yes, rapidly
butanone **CAS No.:** 78-93-3 **EC No.:** 201-159-0
Biodegradation: Yes, rapidly

12.3. Bioaccumulative potential

2-(2-butoxyethoxy)ethanol **CAS No.:** 112-34-5 **EC No.:** 203-961-6
Log K_{OW}: = 1
(2-methoxymethylethoxy)propanol **CAS No.:** 34590-94-8 **EC No.:** 252-104-2
Log K_{OW}: 0.004
ethanol **CAS No.:** 64-17-5 **EC No.:** 200-578-6
Log K_{OW}: -0.35
Bioconcentration factor (BCF): 0.66
butanone **CAS No.:** 78-93-3 **EC No.:** 201-159-0
Log K_{OW}: 0.3

12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment

2-(2-butoxyethoxy)ethanol **CAS No.:** 112-34-5 **EC No.:** 203-961-6
Results of PBT and vPvB assessment: —
(2-methoxymethylethoxy)propanol **CAS No.:** 34590-94-8 **EC No.:** 252-104-2
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Isotridecanol,ethoxylated **CAS No.:** 69011-36-5
Results of PBT and vPvB assessment: —
ethanol **CAS No.:** 64-17-5 **EC No.:** 200-578-6
Results of PBT and vPvB assessment: —

sodium etasulfate **CAS No.:** 126-92-1 **EC No.:** 204-812-8	
Results of PBT and vPvB assessment: —	
bis(2-ethylhexyl) maleate **CAS No.:** 142-16-5 **EC No.:** 205-524-5	
Results of PBT and vPvB assessment: —	
butanone **CAS No.:** 78-93-3 **EC No.:** 201-159-0	
Results of PBT and vPvB assessment: —	

12.6. Endocrine disrupting properties
No data available

12.7. Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

07 06 01 *	aqueous washing liquids and mother liquors
20 01 29 *	Detergents containing hazardous substances

**: Evidence for disposal must be provided.*

Waste code packaging

Remark:
Plastic packaging

Waste treatment options

Appropriate disposal / Product:
Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

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

15.1.1. EU legislation

Authorisations:

Ingredients according to the Detergents Regulation 648/2004/EG:
phosphates less than 5%
Nonionic surfactants: less than 5%
anionic surfactants : less than 5%
perfumes Linalool
Methylisothiazolinone , Benzisothiazolinone

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out for this product.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

Substance name	Type	source of supply
(2-methoxymethylethoxy)propanol **CAS No.:** 34590-94-8 **EC No.:** 252-104-2	LD_{50} dermal; LC_{50}; EC_{50}; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	H412: Harmful to aquatic life with long lasting effects.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6. Training advice

No data available

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16.7. Additional information

The information is based on our current level of knowledge and is used to describe the product with regard to the safety precautions to be taken. They do not represent a guarantee of the properties of the product described.
It is the responsibility of the recipient of our product to observe existing laws and regulations.