

**TASKI Jontec Forward free F4h**

Revision: 2024-08-01

Version: 04.0

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

**1.1 Product identifier**

**Trade name:** TASKI Jontec Forward free F4h

UFI: 56R1-503H-V005-3T5G

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

**Product use:** Floor cleaner.  
For professional use only.  
**Uses advised against:** Uses other than those identified are not recommended.

**SWED - Sector-specific worker exposure description :**

AISE\_SWED\_PW\_8a\_1  
AISE\_SWED\_PW\_8b\_1  
AISE\_SWED\_PW\_4\_1  
AISE\_SWED\_PW\_10\_1  
AISE\_SWED\_PW\_19\_1

**1.3 Details of the supplier of the safety data sheet**

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssebroeksedijk 2, 3542DN Utrecht], The Netherlands

**Contact details**

Tandur Hf.  
Hesthálsi 12, 110 Reykjavík  
Tel. 5101200, Email: tandur@tandur.is

**1.4 Emergency telephone number**

Seek medical advice (show the label or safety data sheet where possible).  
Poison Center: (+354) 543-2222  
Emergency services: 112.

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Skin irritation, Category 2 (H315)  
Eye irritation, Category 2 (H319)

**2.2 Label elements**



**Signal word:** Warning.

**Hazard statements:**

H315 + H319 - Causes skin and serious eye irritation.

**2.3 Other hazards**

No other hazards known.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
2-butoxyethanol	203-905-0	111-76-2	01-211947510 8-36	Acute toxicity - Inhalation, Category 3 (H331) Acute toxicity - Oral, Category 4 (H302)		20-30

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				Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319)	
2,2'-(methylimino)diethanol	203-312-7	105-59-9	01-211948897 0-24	Eye irritation, Category 2 (H319)	3-10
Alcohols, C10-16, ethoxylated propoxylated	[4]	69227-22-1	[4]	Eye irritation, Category 2 (H319)	3-10
alkyl alcohol alkoxyate	[4]	111905-53-4	[4]	Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319) Chronic aquatic toxicity, Category 3 (H412)	1-3

Workplace exposure limit(s), if available, are listed in subsection 8.1.

ATE, if available, are listed in section 11.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Inhalation:</b>	Get medical attention or advice if you feel unwell.
<b>Skin contact:</b>	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
<b>Eye contact:</b>	Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.
<b>Ingestion:</b>	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
<b>Self-protection of first aider:</b>	Consider personal protective equipment as indicated in subsection 8.2.

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

<b>Inhalation:</b>	No known effects or symptoms in normal use.
<b>Skin contact:</b>	Causes irritation.
<b>Eye contact:</b>	Causes severe irritation.
<b>Ingestion:</b>	No known effects or symptoms in normal use.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

### 5.2 Special hazards arising from the substance or mixture

No special hazards known.

### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Repeated or prolonged contact.: Wear suitable gloves.

### 6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water.

### 6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire and explosions:

No special precautions required.

#### Measures required to protect the environment:

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For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Ingredient(s)	Long term value(s)	Short term value(s)
2-butoxyethanol	20 ppm 100 mg/m <sup>3</sup> 25 ppm	50 ppm 246 mg/m <sup>3</sup>

Biological limit values, if available:

**Recommended monitoring procedures, if available:**

Additional exposure limits under the conditions of use, if available:

**DNEL/DMEL and PNEC values****Human exposure**

DNEL/DMEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
2-butoxyethanol	-	26.7	-	6.3
2,2'-(methylimino)diethanol	-	-	-	1.9
Alcohols, C10-16, ethoxylated propoxylated	-	-	-	-
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

DNEL/DMEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
2-butoxyethanol	-	89	-	125
2,2'-(methylimino)diethanol	No data available	-	No data available	19
Alcohols, C10-16, ethoxylated propoxylated	-	-	-	-
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

DNEL/DMEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
2-butoxyethanol	-	89	-	75
2,2'-(methylimino)diethanol	No data available	-	No data available	9.4
Alcohols, C10-16, ethoxylated propoxylated	-	-	-	-
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

DNEL/DMEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
2-butoxyethanol	246	1091	-	98
2,2'-(methylimino)diethanol	-	-	-	26
Alcohols, C10-16, ethoxylated propoxylated	-	-	-	-
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

DNEL/DMEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects

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2-butoxyethanol	147	426	-	59
2,2'-(methylimino)diethanol	-	-	-	6.5
Alcohols, C10-16, ethoxylated propoxylated	-	-	-	-
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

**Environmental exposure**

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
2-butoxyethanol	8.8	0.88	9.1	463
2,2'-(methylimino)diethanol	0.1	0.0045	1	10
Alcohols, C10-16, ethoxylated propoxylated	-	-	-	-
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
2-butoxyethanol	34.6	3.46	2.33	-
2,2'-(methylimino)diethanol	0.78	0.0351	0.097	-
Alcohols, C10-16, ethoxylated propoxylated	-	-	-	-
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

**8.2 Exposure controls**

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.

If available, please refer to the product information sheet for application and handling instructions.

Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

**Appropriate engineering controls:** No special requirements under normal use conditions.  
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**REACH use scenarios considered for the undiluted product:**

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Manual transfer and dilution	AISE_SWED_PW_8a_1	PW	PROC 8a	60	ERC8a
Automatic transfer and dilution	AISE_SWED_PW_8b_1	PW	PROC 8b	60	ERC8b

**Personal protective equipment**

**Eye / face protection:** Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 16321 / EN 166).

**Hand protection:** Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary. Repeated or prolonged contact: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:** No special requirements under normal use conditions.

**Respiratory protection:** No special requirements under normal use conditions.

**Environmental exposure controls:** No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 2

**Appropriate engineering controls:** No special requirements under normal use conditions.

**Appropriate organisational controls:** No special requirements under normal use conditions.

**REACH use scenarios considered for the diluted product:**

	SWED	LCS	PROC	Duration (min)	ERC
Machine application	AISE_SWED_PW_10_1	PW	PROC 10	480	ERC8a
Manual application by brushing, wiping or mopping					

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Manual application	AISE_SWED_PW_19_1	PW	PROC 19	480	ERC8a
Automatic application in a dedicated system	AISE_SWED_PW_4_1	PW	PROC 4	480	ERC8a

**Personal protective equipment**

**Eye / face protection:** No special requirements under normal use conditions.  
**Hand protection:** No special requirements under normal use conditions.  
**Body protection:** No special requirements under normal use conditions.  
**Respiratory protection:** No special requirements under normal use conditions.

**Environmental exposure controls:** No special requirements under normal use conditions.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Information in this section refers to the product, unless it is specifically stated that substance data is listed

**Method / remark**

**Physical state:** Liquid

**Colour:** Clear , Light , Yellow

**Odour:** Product specific

**Odour threshold:** Not applicable

**Melting point/freezing point (°C):** Not determined

Not relevant to classification of this product

**Initial boiling point and boiling range (°C):** Not determined

See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
2-butoxyethanol	168-172	Method not given	1013
2,2'-(methylimino)diethanol	243.4	Method not given	
Alcohols, C10-16, ethoxylated propoxylated	No data available		
alkyl alcohol alkoxyate	No data available		

**Method / remark**

**Flammability (solid, gas):** Not applicable to liquids

**Flammability (liquid):** Not flammable.

**Flash point (°C):** > 60 °C

Weight of evidence

**Sustained combustion:** Not applicable.

( UN Manual of Tests and Criteria, section 32, L.2 )

**Lower and upper explosion limit/flammability limit (%):** Not determined

See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
2-butoxyethanol	1.1	10.6
2,2'-(methylimino)diethanol	0.9	8.4

**Method / remark**

**Autoignition temperature:** Not determined

**Decomposition temperature:** Not applicable.

**pH:** ≈ 11 (neat)

ISO 4316

**Dilution pH:** ≈ 10 (2 %)

ISO 4316

**Kinematic viscosity:** Not determined

**Solubility in / Miscibility with water:** Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
2-butoxyethanol	Soluble	Method not given	20
2,2'-(methylimino)diethanol	> 1000	Method not given	20
Alcohols, C10-16, ethoxylated propoxylated	No data available		
alkyl alcohol alkoxyate	No data available		

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

**Method / remark**

**Vapour pressure:** Not determined

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
2-butoxyethanol	89	Method not given	20

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2,2'-(methylimino)diethanol	0.31	Method not given	20
Alcohols, C10-16, ethoxylated propoxylated	No data available		
alkyl alcohol alkoxyate	No data available		

**Relative density:**  $\approx$  1.02 (20 °C)  
**Relative vapour density:** No data available.  
**Particle characteristics:** No data available.

**Method / remark**  
 OECD 109 (EU A.3)  
 Not relevant to classification of this product  
 Not applicable to liquids.

**9.2 Other information****9.2.1 Information with regard to physical hazard classes**

**Explosive properties:** Not explosive.  
**Oxidising properties:** Not oxidising.  
**Corrosion to metals:** Not corrosive

**9.2.2 Other safety characteristics**

No other relevant information available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**

Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**

None known under normal storage and use conditions.

**10.5 Incompatible materials**

None known under normal use conditions.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

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

Mixture data: .

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): >2000

**Skin irritation and corrosivity**

**Result:** No data available

Substance data, where relevant and available, are listed below:.

**Acute toxicity**

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Oral (mg/kg)
2-butoxyethanol	LD <sub>50</sub>	1746	Rat	ATE - Acute Toxicity Estimate		1200
2,2'-(methylimino)diethanol	LD <sub>50</sub>	4680	Rat	Non guideline test		Not established
Alcohols, C10-16, ethoxylated propoxylated	LD <sub>50</sub>	> 5000	Rat	Read across		Not established
alkyl alcohol alkoxyate	LD <sub>50</sub>	$\geq$ 300-2000	Rat	Method not given		17000

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
2-butoxyethanol	LD <sub>50</sub>	6411		Method not given		Not established
2,2'-(methylimino)diethanol	LD <sub>50</sub>	5990	Rabbit	Method not given		Not established
Alcohols, C10-16, ethoxylated propoxylated		No data				Not established

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		available			
alkyl alcohol alkoxylate		No data available			Not established

## Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-butoxyethanol	LC <sub>50</sub>	> 2 (mist) No mortality observed	Rat	Method not given	4
2,2'-(methylimino)diethanol		No data available			
Alcohols, C10-16, ethoxylated propoxylated		No data available			
alkyl alcohol alkoxylate		No data available			

## Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
2-butoxyethanol	Not established	Not established	3	Not established
2,2'-(methylimino)diethanol	Not established	Not established	Not established	Not established
Alcohols, C10-16, ethoxylated propoxylated	Not established	Not established	Not established	Not established
alkyl alcohol alkoxylate	Not established	Not established	Not established	Not established

## Irritation and corrosivity

## Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-butoxyethanol	Irritant	Rabbit	OECD 404 (EU B.4)	24; 48; 72 hour(s)
2,2'-(methylimino)diethanol	Not irritant	Rabbit	Method not given	
Alcohols, C10-16, ethoxylated propoxylated	No data available			
alkyl alcohol alkoxylate	Mild irritant	Rabbit	OECD 404 (EU B.4)	

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-butoxyethanol	Irritant	Rabbit	OECD 405 (EU B.5)	24; 48; 72 hour(s)
2,2'-(methylimino)diethanol	Irritant	Rabbit	Method not given	
Alcohols, C10-16, ethoxylated propoxylated	Irritant		Read across	
alkyl alcohol alkoxylate	Irritant	Rabbit	OECD 405 (EU B.5)	

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-butoxyethanol	No data available			
2,2'-(methylimino)diethanol	No data available			
Alcohols, C10-16, ethoxylated propoxylated	No data available			
alkyl alcohol alkoxylate	No data available			

## Sensitisation

## Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
2-butoxyethanol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
2,2'-(methylimino)diethanol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
Alcohols, C10-16, ethoxylated propoxylated	No data available			
alkyl alcohol alkoxylate	No data available			

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
2-butoxyethanol	No data available			
2,2'-(methylimino)diethanol	No data available			
Alcohols, C10-16, ethoxylated propoxylated	No data available			
alkyl alcohol alkoxylate	No data available			

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

## Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
2-butoxyethanol	No evidence for mutagenicity, negative	OECD 471 (EU)	No evidence for mutagenicity, negative	OECD 474 (EU)

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	test results	B.12/13 OECD 476 (Chinese Hamster Ovary)	test results	B.12)
2,2'-(methylimino)diethanol	No evidence for mutagenicity, negative test results	Method not given	No evidence of genotoxicity, negative test results	Method not given
Alcohols, C10-16, ethoxylated propoxylated	No data available		No data available	
alkyl alcohol alkoxyate	No data available		No data available	

## Carcinogenicity

Ingredient(s)	Effect
2-butoxyethanol	No evidence for carcinogenicity, negative test results
2,2'-(methylimino)diethanol	No evidence for carcinogenicity, negative test results
Alcohols, C10-16, ethoxylated propoxylated	No data available
alkyl alcohol alkoxyate	No data available

## Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
2-butoxyethanol			No data available				
2,2'-(methylimino)diethanol			-				No known significant effects or critical hazards
Alcohols, C10-16, ethoxylated propoxylated			No data available				
alkyl alcohol alkoxyate			No data available				

## Repeated dose toxicity

## Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
2-butoxyethanol		No data available				
2,2'-(methylimino)diethanol		No data available				
Alcohols, C10-16, ethoxylated propoxylated		No data available				
alkyl alcohol alkoxyate		No data available				

## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
2-butoxyethanol		No data available				
2,2'-(methylimino)diethanol	NOAEL	750	Rat	Method not given	90	
Alcohols, C10-16, ethoxylated propoxylated		No data available				
alkyl alcohol alkoxyate		No data available				

## Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
2-butoxyethanol		No data available				
2,2'-(methylimino)diethanol		No data available				
Alcohols, C10-16, ethoxylated propoxylated		No data available				
alkyl alcohol alkoxyate		No data available				

## Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
2-butoxyethanol			No data available					
2,2'-(methylimino)diethanol			No data available					
Alcohols, C10-16, ethoxylated propoxylated			No data available					



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alkyl alcohol alkoxylate			No data available				
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## STOT-single exposure

Ingredient(s)	Affected organ(s)
2-butoxyethanol	No data available
2,2'-(methylimino)diethanol	No data available
Alcohols, C10-16, ethoxylated propoxylated	No data available
alkyl alcohol alkoxylate	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
2-butoxyethanol	No data available
2,2'-(methylimino)diethanol	No data available
Alcohols, C10-16, ethoxylated propoxylated	No data available
alkyl alcohol alkoxylate	No data available

**Aspiration hazard**

Substances with an aspiration hazard (H304), if any, are listed in section 3.

**Potential adverse health effects and symptoms**

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

Endocrine disrupting properties - Human data, if available:

**11.2.2 Other information**

No other relevant information available.

**SECTION 12: Ecological information****12.1 Toxicity**

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

**Aquatic short-term toxicity**

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-butoxyethanol	LC <sub>50</sub>	> 100	<i>Oncorhynchus mykiss</i>	OECD 203, static	96
2,2'-(methylimino)diethanol	LC <sub>50</sub>	1466	<i>Leuciscus idus</i>	DIN 38412, Part 15	96
Alcohols, C10-16, ethoxylated propoxylated	LC <sub>50</sub>	6.7	<i>Fish</i>	Method not given	96
alkyl alcohol alkoxylate	LC <sub>50</sub>	> 1 - 10	<i>Leuciscus idus</i>	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-butoxyethanol	EC <sub>50</sub>	> 100	<i>Daphnia magna Straus</i>	OECD 202, static	48
2,2'-(methylimino)diethanol	EC <sub>50</sub>	233	<i>Daphnia magna Straus</i>	79/831/EEC	48
Alcohols, C10-16, ethoxylated propoxylated	EC <sub>50</sub>	7.6	<i>Daphnia magna Straus</i>	Method not given	48
alkyl alcohol alkoxylate	EC <sub>50</sub>	> 1 - 10	<i>Daphnia magna Straus</i>	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-butoxyethanol	EC <sub>50</sub>	> 100	<i>Pseudokirchneriella subcapitata</i>	OECD 201, static	72
2,2'-(methylimino)diethanol	EC <sub>50</sub>	176	<i>Pseudokirchneriella subcapitata</i>	DIN 38412, Part 9	72
Alcohols, C10-16, ethoxylated propoxylated	EC <sub>50</sub>	4.41	<i>Not specified</i>	Method not given	72
alkyl alcohol alkoxylate		No data			

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		available		
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## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
2-butoxyethanol		No data available			
2,2'-(methylimino)diethanol		No data available			
Alcohols, C10-16, ethoxylated propoxylated		No data available			
alkyl alcohol alkoxylate		No data available			

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
2-butoxyethanol	EC <sub>0</sub>	700	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
2,2'-(methylimino)diethanol	EC <sub>20</sub>	> 1000	<i>Activated sludge</i>	DIN EN ISO 8192-OECD 209-88/302/EEC	0.5 hour(s)
Alcohols, C10-16, ethoxylated propoxylated		No data available			
alkyl alcohol alkoxylate	EC <sub>10</sub>	> 1000	<i>Activated sludge</i>	DEV-L2	

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
2-butoxyethanol	NOEC	> 100	<i>Danio rerio</i>	OECD 204	21 day(s)	
2,2'-(methylimino)diethanol		No data available				
Alcohols, C10-16, ethoxylated propoxylated		No data available				
alkyl alcohol alkoxylate		No data available				

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
2-butoxyethanol	NOEC	100	<i>Daphnia magna</i>	OECD 211	21 day(s)	
2,2'-(methylimino)diethanol	NOEC	> 100	<i>Not specified</i>	Method not given	96 hour(s)	
Alcohols, C10-16, ethoxylated propoxylated		No data available				
alkyl alcohol alkoxylate	NOEC	> 0.1 - 1	<i>Daphnia magna</i>	OECD 202	21 day(s)	

## Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
2-butoxyethanol		No data available				
2,2'-(methylimino)diethanol		No data available				
Alcohols, C10-16, ethoxylated propoxylated		No data available				
alkyl alcohol alkoxylate		No data available				

## Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

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**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
2-butoxyethanol		CO <sub>2</sub> production	90.4 % in 28 day(s)	OECD 301B	Readily biodegradable
2,2'-(methylimino)diethanol				Method not given	Not readily biodegradable.
Alcohols, C10-16, ethoxylated propoxylated				OECD 301B	Readily biodegradable
alkyl alcohol alkoxylate	Activated sludge, aerobe	CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
2-butoxyethanol	0.81	OECD 107	Low potential for bioaccumulation	
2,2'-(methylimino)diethanol	-1.08	Method not given	No bioaccumulation expected	
Alcohols, C10-16, ethoxylated propoxylated	-		No bioaccumulation expected	
alkyl alcohol alkoxylate	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
2-butoxyethanol	No data available				
2,2'-(methylimino)diethanol	No data available				
Alcohols, C10-16, ethoxylated propoxylated	-				
alkyl alcohol alkoxylate	No data available				

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K <sub>oc</sub>	Desorption coefficient Log K <sub>oc</sub> (des)	Method	Soil/sediment type	Evaluation
2-butoxyethanol	No data available				Potential for mobility in soil, soluble in water
2,2'-(methylimino)diethanol	1.62		Method not given	Soil	
Alcohols, C10-16, ethoxylated propoxylated	No data available				
alkyl alcohol alkoxylate	No data available				

**12.5 Results of PBT and vPvB assessment**

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

**12.6 Endocrine disrupting properties**

Endocrine disrupting properties - Environmental effects, if available:

**12.7 Other adverse effects**

No other adverse effects known.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

**Empty packaging**

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**Recommendation:** Dispose of observing national or local regulations.  
**Suitable cleaning agents:** Water, if necessary with cleaning agent.

## SECTION 14: Transport information

### Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

- 14.1 UN number or ID number: Non-dangerous goods  
 14.2 UN proper shipping name: Non-dangerous goods  
 14.3 Transport hazard class(es): Non-dangerous goods  
 14.4 Packing group: Non-dangerous goods  
 14.5 Environmental hazards: Non-dangerous goods  
 14.6 Special precautions for user: Non-dangerous goods  
 14.7 Maritime transport in bulk according to IMO instruments: Non-dangerous goods

## SECTION 15: Regulatory information

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

#### EU regulations:

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 648/2004 - Detergents regulation
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

**Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.

#### Ingredients according to EC Detergents Regulation 648/2004

non-ionic surfactants	5 - 15 %
soap	< 5 %

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**Seveso - Classification:** Not classified

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

## SECTION 16: Other information

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MS1001899

**Version:** 04.0

**Revision:** 2024-08-01

#### Reason for revision:

This data sheet contains changes from the previous version in section(s):, 1, 2, 4, 8, 15, 16

#### Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

#### Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit

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- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H331 - Toxic if inhaled.
- H332 - Harmful if inhaled.
- H412 - Harmful to aquatic life with long lasting effects.

**End of Safety Data Sheet**