

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

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

#### 1.1 Product identifier

Trade name **JeFo Shampoo Pearl & Dry**  
Product code(s) 95801

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

Relevant identified uses consumer use (private households)

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

JeFo Ship Supply  
Roomweg 6B  
8334 NR Tuk  
Netherlands  
Tel: +31(0)6 83 70 12 19  
E-mail: info@JeFoshipsupply.nl  
Web: www.JeFoshipsupply.nl

#### 1.4 Emergency telephone number

Emergency information service for emergency responders  
This number is only for medical emergencies.

Poison centre		
Country	Name	e-Mail
United Kingdom	National Poisons Information Service (NPIS)	director.birmingham.unit@npis.org

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.4S	skin sensitisation	1	Skin Sens. 1	H317

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

#### 2.2 Label elements

Labelling

- Signal word danger

- Pictograms

GHS05, GHS07



- Hazard statements

H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

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Date of compilation: 2024-04-17

### - Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
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.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to industrial combustion plant.

### - Hazardous ingredients for labelling

2-methyl-2H-isothiazol-3-one, Isotridecanol, ethoxylated ( $\geq 2.5$  EO), Quaternary ammonium compounds, amiden, C8-18-en C18-onverzadigde, N,N-bis(hydroxyethyl)-

## 2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	CAS No 69011-36-5  EC No 931-138-8	5 - < 10	Acute Tox. 4 / H302 Eye Dam. 1 / H318		
2-(2-butoxyethoxy)ethanol	CAS No 112-34-5  EC No 203-961-6  Index No 603-096-00-8	1 - < 5	Eye Irrit. 2 / H319		GHS-HC IOELV
Quaternary ammonium compounds	CAS No 1474044-71-7  EC No 939-685-4	1 - < 5	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412		
amiden, C8-18-en C18-onverzadigde, N,N-bis(hydroxyethyl)-	CAS No 68155-07-7  EC No 931-329-6	1 - < 5	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Chronic 2 / H411		


# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
2-methyl-2H-isothiazol-3-one	CAS No 2682-20-4  EC No 220-239-6  Index No 613-326-00-9	< 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 2 / H330 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Skin Sens. 1A / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		GHS-HC

### Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

IOELV: Substance with a community indicative occupational exposure limit value

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Isotridecanol, ethoxylated (>=2.5 EO)	Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 1 % ≤ C < 10 %	-	555.6 mg/kg	oral
2-methyl-2H-isothiazol-3-one	Skin Sens. 1A; H317: C ≥ 0.0015 %	M-factor (acute) = 10 M-factor (chronic) = 1	120 mg/kg 242 mg/kg 0.11 mg/l/4h	oral dermal inhalation: dust/mist

### Remarks

For full text of H-phrases: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

#### Self-protection of the first aider

Provision of sufficient ventilation. Wear suitable protective clothing, gloves and eye/face protection.

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

Symptoms and effects are not known to date.

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

none

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

Water jet

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

Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance. Self-contained breathing apparatus (SCBA). SCBA with a chemical protection suit only where personal (close) contact is likely.

### SECTION 6: Accidental release measures

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

For non-emergency personnel

Follow emergency procedures such as the need to evacuate the danger area or to consult an expert. Remove persons to safety. Provision of sufficient ventilation. Prevent skin contact. Avoid inhaling sprayed product. Collection and use of expertise.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

Control of effects

Protect from sunlight.

Protect against external exposure, such as

frost

- Packaging compatibilities

Keep only in original container.

#### 7.3 Specific end use(s)

Consumer use (private households).

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Notation	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Source
EU	2-(2-butoxyethoxy)ethanol	112-34-5		IOEL V	10	67.5	15	101.2			2006/15/EC
GB	2-(2-butoxyethoxy)ethanol	112-34-5		WEL	10	67.5	15	101.2			EH40/2005

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur  
STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours  
time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	DNEL	294 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	DNEL	2,080 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	67.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	67.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	101.2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	83 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Quaternary ammonium compounds	1474044-71-7	DNEL	8.72 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Quaternary ammonium compounds	1474044-71-7	DNEL	112.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
amiden, C8-18-en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	DNEL	73.4 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
amiden, C8-18-en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	DNEL	4.16 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
amiden, C8-18-en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	DNEL	93.6 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
2-methyl-2H-isothiazol-3-one	2682-20-4	DNEL	0.021 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
2-methyl-2H-isothiazol-3-one	2682-20-4	DNEL	0.043 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	PNEC	0.074 mg/l	aquatic organisms	freshwater	short-term (single instance)
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	PNEC	0.007 mg/l	aquatic organisms	marine water	short-term (single instance)
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	PNEC	0.015 mg/l	aquatic organisms	water	intermittent release
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	PNEC	1.4 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	PNEC	0.604 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	PNEC	0.06 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	PNEC	0.1 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	1.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0.11 mg/l	aquatic organisms	marine water	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	200 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	4.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0.44 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0.32 mg/kg	terrestrial organisms	soil	short-term (single instance)
Quaternary ammonium compounds	1474044-71-7	PNEC	0.017 mg/l	aquatic organisms	freshwater	short-term (single instance)
Quaternary ammonium compounds	1474044-71-7	PNEC	0.002 mg/l	aquatic organisms	marine water	short-term (single instance)
Quaternary ammonium compounds	1474044-71-7	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Quaternary ammonium compounds	1474044-71-7	PNEC	1.7 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Quaternary ammonium compounds	1474044-71-7	PNEC	0.17 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Quaternary ammonium compounds	1474044-71-7	PNEC	0.331 mg/kg	terrestrial organisms	soil	short-term (single instance)
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	PNEC	0.007 mg/l	aquatic organisms	freshwater	short-term (single instance)
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	PNEC	830 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	PNEC	0.195 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	PNEC	0.019 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	PNEC	0.035 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-methyl-2H-isothiazol-3-one	2682-20-4	PNEC	3.39 µg/l	aquatic organisms	freshwater	short-term (single instance)
2-methyl-2H-isothiazol-3-one	2682-20-4	PNEC	3.39 µg/l	aquatic organisms	marine water	short-term (single instance)
2-methyl-2H-isothiazol-3-one	2682-20-4	PNEC	0.23 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-methyl-2H-isothiazol-3-one	2682-20-4	PNEC	0.047 mg/kg	terrestrial organisms	soil	short-term (single instance)

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection

Wear eye/face protection. Use safety goggle with side protection.

##### Skin protection

###### - Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

###### - Type of material

NBR: acrylonitrile-butadiene rubber

###### - Material thickness

> 0.35 mm

###### - Breakthrough times of the glove material

>480 minutes (permeation: level 6)



# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

### - Other protection measures

Protective clothing against liquid chemicals. Footwear protecting against chemicals. Preventive skin protection (barrier creams/ointments) is recommended. Take recovery periods for skin regeneration. Wash hands thoroughly after handling.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Type: ABEK (combined filters against gases and vapours, colour code: Brown/Grey/Yellow/Green).

### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	red
Odour	Perfume
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	100 °C
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	>100 °C at 1,013 Pa
Auto-ignition temperature	210 °C (auto-ignition temperature (liquids and gases))
pH (value)	8
Kinematic viscosity	not determined
Solubility(ies)	not determined

### Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	2.339 kPa at 20 °C (calculated value, referring to a component of the mixture)
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### Density and/or relative density

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

Density	1.002 g/cm <sup>3</sup> at 20 °C
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
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### 9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
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Other safety characteristics

VOC content	9.036 %
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

Oxidisers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	oral	555.6 mg/kg
2-methyl-2H-isothiazol-3-one	2682-20-4	oral	120 mg/kg
2-methyl-2H-isothiazol-3-one	2682-20-4	dermal	242 mg/kg
2-methyl-2H-isothiazol-3-one	2682-20-4	inhalation: dust/mist	0.11 mg/l/4h

### Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	oral	LD50	$>2,000$ mg/kg	rat
2-(2-butoxyethoxy)ethanol	112-34-5	oral	LD50	2,410 mg/kg	mouse
2-(2-butoxyethoxy)ethanol	112-34-5	dermal	LD50	2,764 mg/kg	rabbit
Quaternary ammonium compounds	1474044-71-7	oral	LD50	$>2,000$ mg/kg	rat
Quaternary ammonium compounds	1474044-71-7	dermal	LD50	$>2,000$ mg/kg	rat
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	oral	LD50	$>2,000$ mg/kg	rat
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	dermal	LD50	$>2,000$ mg/kg	rabbit
2-methyl-2H-isothiazol-3-one	2682-20-4	oral	LD50	120 mg/kg	rat
2-methyl-2H-isothiazol-3-one	2682-20-4	inhalation: dust/mist	LC50	0.11 mg/l/4h	rat
2-methyl-2H-isothiazol-3-one	2682-20-4	dermal	LD50	242 mg/kg	rat

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### 11.2 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2-(2-butoxyethoxy)ethanol	112-34-5	LC50	1,300 mg/l	fish	96 h
2-(2-butoxyethoxy)ethanol	112-34-5	EC50	>100 mg/l	aquatic invertebrates	48 h
2-(2-butoxyethoxy)ethanol	112-34-5	ErC50	>100 mg/l	algae	96 h
Quaternary ammonium compounds	1474044-71-7	LC50	>10 mg/l	fish	96 h
Quaternary ammonium compounds	1474044-71-7	EC50	>8.6 mg/l	aquatic invertebrates	48 h
Quaternary ammonium compounds	1474044-71-7	ErC50	1.2 mg/l	algae	72 h
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	LC50	2.4 mg/l	fish	96 h
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	EC50	3.2 mg/l	aquatic invertebrates	48 h
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	EbC50	2.2 mg/l	algae	72 h
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	ErC50	7.4 mg/l	algae	72 h
2-methyl-2H-isothiazol-3-one	2682-20-4	LC50	4.77 mg/l	fish	96 h
2-methyl-2H-isothiazol-3-one	2682-20-4	EC50	1.7 mg/l	aquatic invertebrates	24 h
2-methyl-2H-isothiazol-3-one	2682-20-4	ErC50	>0.072 mg/l	algae	96 h

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Quaternary ammonium compounds	1474044-71-7	EC50	>2.1 mg/l	aquatic invertebrates	21 d
2-methyl-2H-isothiazol-3-one	2682-20-4	EC50	1.4 mg/l	aquatic invertebrates	21 d
2-methyl-2H-isothiazol-3-one	2682-20-4	ErC50	0.22 mg/l	algae	120 h

### 12.2 Persistence and degradability

#### Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	DOC removal	82 %	28 d		ECHA
2-(2-butoxyethoxy)ethanol	112-34-5	oxygen depletion	85 %	28 d		ECHA
Quaternary ammonium compounds	1474044-71-7	oxygen depletion	63 %	14 d		ECHA
2-methyl-2H-isothiazol-3-one	2682-20-4	carbon dioxide generation	54.1 %	29 d		ECHA
2-methyl-2H-isothiazol-3-one	2682-20-4	oxygen depletion	0 %	28 d		ECHA

### 12.3 Bioaccumulative potential

Data are not available.

#### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	232.5		
2-(2-butoxyethoxy)ethanol	112-34-5		1 (pH value: 7, 20 °C)	
amiden, C8-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-	68155-07-7	65.36	1.35 – ≤4.84 (pH value: ~5.5, 20 °C)	
2-methyl-2H-isothiazol-3-one	2682-20-4	5.75	-0.486 (pH value: 7, 25 °C)	

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

- |  |   |
|--|---|
| 14.1 UN number or ID number                                  | not subject to transport regulations                                  |
| 14.2 UN proper shipping name                                 | not relevant  |
| 14.3 Transport hazard class(es)                              | none  |
| 14.4 Packing group   | not assigned  |
| 14.5 Environmental hazards                                   | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for user                            | There is no additional information.                                   |
| 14.7 Maritime transport in bulk according to IMO instruments | The cargo is not intended to be carried in bulk.                      |

#### Information for each of the UN Model Regulations

##### International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

##### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

None of the ingredients are listed.

#### Deco-Paint Directive

VOC content	8.187 %
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# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

### Industrial Emissions Directive (IED)

VOC content	9.036 %
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### Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

### Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

### National regulations (GB)

#### List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

### Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name of substance	Name acc. to inventory	CAS No	No
JeFo Shampoo Pearl & Dry	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3
2-(2-butoxyethoxy)ethanol	2-(2-butoxyethoxy)ethanol (DEGBE)	112-34-5	55

### National inventories

Country	Inventory	Status
EU	REACH Reg.	all ingredients are listed
US	TSCA	not all ingredients are listed

#### Legend

REACH Reg. REACH registered substances  
TSCA Toxic Substance Control Act

## 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## SECTION 16: Other information

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

Abbr.	Descriptions of used abbreviations
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EbC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present



# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

Abbr.	Descriptions of used abbreviations
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
SCBA	Self-contained breathing apparatus
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## JeFo Shampoo Pearl & Dry

Version number: GHS 1.0

Date of compilation: 2024-04-17

Code	Text
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.