

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

#### 1.1. Product identifier

Product form : Mixture  
 Trade name : Lenor Professional Linen care Spring Awakening  
 Product code : PA00212686 / 91313669  
 Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
 Function or use category : Washing and cleaning products (including solvent based products)

##### 1.2.2. Uses advised against

No additional information available

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

Procter & Gamble UK Brooklands, Weybridge, Surrey, KT13 0XP, UK

Tel: 01932 896000 Fax: 01932 896200

Professional: customerservice@pgprof.com

#### 1.4. Emergency telephone number

Emergency number : (UK) Emergency Tel: 0800 328 8304(IREL) Emergency Tel: 1800 509 497

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Signal word (CLP) : None  
 Hazard statements (CLP) : None  
 Precautionary statements (CLP) : P102 - Keep out of reach of children  
 EUH-statements : EUH208 - Contains Linalool. May produce an allergic reaction.

#### 2.3. Other hazards

Other hazards not contributing to the classification : No presence of PBT and vPvB ingredients.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distearoylethyl/Dipalmitoylethyl Dimonium Chloride	(CAS No) 1079184-43-2 (EC-No.) Notified (REACH-no) 01-0000000679-63	10 - 20	Aquatic Chronic 3, H412
Isopropyl Alcohol	(CAS No) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0 (REACH-no) 01-2119457558-25	1 - 5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Linalool	(CAS No) 78-70-6 (EC-No.) 201-134-4 (REACH-no) 01-2119474016-42	< 1	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319

Full text of H-statements: see section 16

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
- First-aid measures after eye contact : IF IN EYES: 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.
- First-aid measures after ingestion : IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

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

- Symptoms/effects after inhalation : Coughing, sneezing.
- Symptoms/effects after skin contact : Redness, Swelling, dryness, Itching.
- Symptoms/effects after eye contact : Pain, Redness, Swelling, Itching.
- Symptoms/effects after ingestion : Oral mucosal or gastro-intestinal irritation, Nausea, Vomiting, Excessive secretion, Diarrhea.

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

Refer to section 4.1.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).

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

- Fire hazard : No fire hazard. Non combustible.
- Explosion hazard : Product is not explosive.
- Reactivity : No dangerous reactions known.

### 5.3. Advice for firefighters

- Firefighting instructions : No specific firefighting instructions required.
- Protection during firefighting : In case of inadequate ventilation wear respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable gloves and eye/face protection.

#### 6.1.2. For emergency responders

- Protective equipment : Wear suitable gloves and eye/face protection.

### 6.2. Environmental precautions

Consumer products ending up down the drain after use. Prevent soil and water pollution. Prevent spreading in sewers.

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

- For containment : Scoop absorbed substance into closing containers.
- Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Large spills: contain released substance, pump into suitable containers. This material and its container must be disposed of in a safe way, and as per local legislation.

### 6.4. Reference to other sections

Refer to Sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood.

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

- Storage conditions : Store in original container. Refer to section 10.
- Incompatible products : Refer to section 10.
- Incompatible materials : Refer to section 10.
- Information on mixed storage : Not applicable.
- Storage area : Store in a cool area. Store in a dry area.

### 7.3. Specific end use(s)

Refer to section 1.2.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National limit values

Isopropyl Alcohol (67-63-0)		
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	999 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1250 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	500 ppm

#### 8.1.2. Monitoring procedures: DNELS, PNECS, OEL

Isopropyl Alcohol (67-63-0)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	888 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	500 mg/m <sup>3</sup>	
DNEL/DMEL (General population)		
Long-term - systemic effects, oral	26 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	89 mg/m <sup>3</sup>	
Long-term - systemic effects, dermal	319 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	140.9 mg/l	
PNEC aqua (marine water)	140.9 mg/l	
PNEC aqua (intermittent, freshwater)	140.9 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	552 mg/kg dwt	
PNEC sediment (marine water)	552 mg/kg dwt	
PNEC (Soil)		
PNEC soil	28 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	2251 mg/l	
Linalool (78-70-6)		
DNEL/DMEL (Workers)		
Acute - systemic effects, dermal	5 mg/kg bodyweight/day	
Acute - systemic effects, inhalation	16.5 mg/m <sup>3</sup>	
Acute - local effects, dermal	15 mg/cm <sup>2</sup>	
Long-term - systemic effects, dermal	2.5 mg/kg bodyweight/day	
Long-term - local effects, dermal	15 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	2.8 mg/m <sup>3</sup>	
DNEL/DMEL (General population)		
Acute - systemic effects, dermal	2.5 mg/kg bodyweight	
Acute - systemic effects, inhalation	4.1 mg/m <sup>3</sup>	
Acute - systemic effects, oral	1.2 mg/kg bodyweight	
Acute - local effects, dermal	15 mg/cm <sup>2</sup>	
Long-term - systemic effects, oral	0.2 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	0.7 mg/m <sup>3</sup>	
Long-term - systemic effects, dermal	1.25 mg/kg bodyweight/day	
Long-term - local effects, dermal	15 mg/cm <sup>2</sup>	
PNEC (Water)		
PNEC aqua (freshwater)	0.2 mg/l	
PNEC aqua (marine water)	0.02 mg/l	
PNEC aqua (intermittent, freshwater)	2 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	2.22 mg/kg dwt	
PNEC sediment (marine water)	0.222 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.327 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	10 mg/l	

### 8.2. Exposure controls

8.2.1. Appropriate engineering controls : Not applicable.

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## 8.2.2. Personal protective equipment

Protective personal equipment only required in case of professional use or for large packs (not for household packs). For consumer use please follow recommendation as indicated on the label of the product.

Hand protection	:	Not applicable.
Eye protection	:	Not applicable.
Skin and body protection	:	Not applicable.
Respiratory protection	:	Not applicable.

## 8.2.3. Environmental exposure controls

Prevent that the undiluted product reaches surface waters.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Property	Value	Unit	Test method/Notes
Appearance	Liquid.		
Physical state	Liquid		
Colour	blue.		
Odour	pleasant (perfume).		
Odour threshold			Perceived odor at typical use conditions
pH	2.7 - 3.5		
Melting point			Not available. This property is not relevant for the safety and classification of this product
Freezing point			Not available. This property is not relevant for the safety and classification of this product
Boiling point	95 - 110	°C	
Flash point			No flash point till boiling
Relative evaporation rate (butylacetate=1)			Not available. This property is not relevant for the safety and classification of this product
Relative evaporation rate (ether=1)			Not available. This property is not relevant for the safety and classification of this product
Flammability (solid, gas)			Not applicable. This property is not relevant for liquid product forms
Explosive limits		vol %	Not available. This property is not relevant for the safety and classification of this product
Vapour pressure			Not available. This property is not relevant for the safety and classification of this product
Relative density	0.97 - 1.1		
Solubility	Soluble in water.		
Log Pow			Not applicable. This property is not relevant for mixtures
Auto-ignition temperature			Not available. This property is not relevant for the safety and classification of this product
Decomposition temperature		°C	Not available. This property is not relevant for the safety and classification of this product
Viscosity	45 - 165	cP	
Explosive properties	Not applicable. This product is not classified as explosive as it does not contain any substances which possesses explosive properties CLP (Art 14 (2)).		
Oxidising properties	Not applicable. This product is not classified as oxidizing as it does not contain any substances which possesses oxidizing properties CLP (Art 14 (2)).		

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## 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

### 10.4. Conditions to avoid

Not required for normal conditions of use.

### 10.5. Incompatible materials

Not applicable.

### 10.6. Hazardous decomposition products

None under normal use.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1. Mixtures

P&G Professional Lenor Spring Awakening	
Acute toxicity	Not classified (*)
Skin corrosion/irritation	Not classified (*)
Serious eye damage/irritation	Not classified (*)
Respiratory or skin sensitisation	Not classified (*)
Germ cell mutagenicity	Not classified (*)
Carcinogenicity	Not classified (*)
Reproductive toxicity	Not classified (*)
STOT-single exposure	Not classified (*)
STOT-repeated exposure	Not classified (*)
Aspiration hazard	Not classified (*)

(\*) Based upon available data of the substances and/or the product, product classification criteria are not met. See Section 2 and Section 16 for applicable hazard classification and classification procedure, respectively.

#### 11.1.2. Substances in the mixture

Acute toxicity:

Isopropyl Alcohol (67-63-0)	
LD50 oral rat	5840 mg/kg bw (//OECD 401)
LD50 dermal rabbit	12956 mg/kg bw (//OECD 402)
Linalool (78-70-6)	
LD50 oral rat	2790 mg/kg bw

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended. The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Isopropyl Alcohol (67-63-0)	
LC50 fishes 1	9640 mg/l //OECD 203; Pimephales promelas; 96 h
EC50 Daphnia 1	> 10000 mg/l //OECD 202; Daphnia magna; 24 h
Distearoylethyl/Dipalmitoylethyl Dimonium Chloride (1079184-43-2)	
LC50 fishes 1	5.2 mg/l
EC50 Daphnia 1	14.8 mg/l
NOEC (acute)	0.686 mg/l
Linalool (78-70-6)	
LC50 fishes 1	27.8 mg/l (OECD 203; Oncorhynchus mykiss; 96 h)
LC50 other aquatic organisms 1	> 100 mg/l (OECD 209; 3 h)
EC50 Daphnia 1	59 mg/l (OECD 202; Daphnia magna; 48 h)
ErC50 (algae)	156.7 mg/l (DIN 38412 L 9; Desmodesmus subspicatus; 96 h)

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<b>Linalool (78-70-6)</b>	
NOEC (chronic)	> 100 mg/l (OECD 209; 0.125 d)
NOEC chronic algae	54.3 mg/l (DIN 38412 L 9; Desmodesmus subspicatus; 4 d)

## 12.2. Persistence and degradability

<b>Isopropyl Alcohol (67-63-0)</b>	
Persistence and degradability	Biodegradable.
Biodegradation	53 % O <sub>2</sub> ; //EC 440/2008 C.5; 5 d
<b>Distearoylethyl/Dipalmitoylethyl Dimonium Chloride (1079184-43-2)</b>	
Persistence and degradability	Biodegradable.
Biodegradation	> 60 %
<b>Linalool (78-70-6)</b>	
Persistence and degradability	Biodegradable.
Biodegradation	64.2 % O <sub>2</sub> ; OECD 301 D; 28 d

## 12.3. Bioaccumulative potential

<b>Isopropyl Alcohol (67-63-0)</b>	
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4).
<b>Linalool (78-70-6)</b>	
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4).

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

<b>P&amp;G Professional Lenor Spring Awakening</b>	
Results of PBT assessment	No presence of PBT and vPvB ingredients
<b>Component</b>	
Linalool (78-70-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Isopropyl Alcohol (67-63-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## 12.6. Other adverse effects

Other information : No other effects known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

- 13.1.1. Regional legislation (waste) : Disposal must be done according to official regulations.
- 13.1.2. Disposal recommendations : The waste codes/waste designations below are in accordance with EWC. Waste must be delivered to an approved waste disposal company. The waste is to be kept separate from other types of waste until its disposal. Do not throw waste product into the sewer. Where possible recycling is preferred to disposal or incineration. For handling waste, see measures described in section 7. Empty, uncleaned packaging need the same disposal considerations as filled packaging.
- 13.1.3. EURAL Waste code product : 20 01 29\* - detergents containing dangerous substances  
15 01 10\* - packaging containing residues of or contaminated by dangerous substances

## SECTION 14: Transport information

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

Not applicable

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## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

## SECTION 15: Regulatory information

Ingredient label : 5-15% Cationic surfactants; Benzisothiazolinone, Perfumes, Alpha-isomethyl ionone, Citronellol, Eugenol, Geraniol, Hexyl cinnamal, Linalool.

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

CESIO recommendations : 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.

Other information, restriction and prohibition regulations : Classification according to Regulation (EC) No. 1272/2008 [CLP]. Regulation (EC) No. 648/2004 of 31 March 2004 on detergents. Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### 16.1. Indication of changes

Indication of changes : Not applicable

### 16.2. Abbreviations and acronyms

LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population (Median Lethal Dose). PBT: Persistent, Bioaccumulative and Toxic substance. PNEC(s): Predicted No Effect Concentration(s). vPvB: Very Persistent and Very Bioaccumulative. AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. ATE: Acute Toxicity Estimate. OEL: Occupational Exposure Limit. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. DNEL: Derived-No Effect Level.

### 16.3. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

No additional information available

### 16.4. Relevant R-phrases and/or H-statements (number and full text) for mixture and substances

Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Sensitisation — Skin, category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H412	Harmful to aquatic life with long lasting effects
EUH208	Contains . May produce an allergic reaction.

### 16.5. Training advice

Normal use of this product shall imply use in accordance with the instructions on the packaging.

### 16.6. Further information

Salts listed in Section 3 without a REACH Registration number are exempt, based on Annex V

SDS P&G CLP

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*