

## SAFETY DATA SHEET

## Svejsespray CA-216

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

## 1.1. Product identifier

## Trade name

Svejsespray CA-216

## Unique formula identifier (UFI)

P7XX-HXMC-D4E0-V21T

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

## Relevant identified uses of the substance or mixture

Industrial purposes

## Uses advised against

None known.

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

## Company and address

**Pureno A/S**

Gefionsvej 20

3400 Hillerød

Denmark

+45 70 260 267

## ▼ Contact person

Lars Skaarup

## ▼ E-mail

ls@pureno.dk

## Revision

09/10/2024

## SDS Version

5.0

## Date of previous version

29/01/2024 (4.0)

## 1.4. Emergency telephone number

Contact the poison hotline: +45 82 12 12 12 (24 hour service)

See section 4 "First aid measures".

## SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP).

## 2.1. Classification of the substance or mixture

Aerosol 3; H229, Pressurised container: May burst if heated.

Eye Irrit. 2; H319, Causes serious eye irritation.

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

## 2.2. Label elements

## Hazard pictogram(s)



## Signal word

Warning

## Hazard statement(s)

Pressurised container: May burst if heated. (H229)

Causes serious eye irritation. (H319)

Harmful to aquatic life with long lasting effects. (H412)

**Precautionary statement(s)****General**

Keep out of reach of children. (P102)

If medical advice is needed, have product container or label at hand. (P101)

**Prevention**

Do not pierce or burn, even after use. (P251)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

**Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

If eye irritation persists: Get medical advice/attention. (P337+P313)

**Storage**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. (P410+P412)

**Disposal**

Dispose of contents/container in accordance with local regulation (P501)

**Hazardous substances**

None known.

**Additional labelling**

UFI: P7XX-HXMC-D4E0-V21T

**2.3. Other hazards****▼ Additional warnings**

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

**SECTION 3: Composition/information on ingredients****3.1. Substances**

Not applicable. This product is a mixture.

**3.2. Mixtures**

Product/substance	Identifiers	% w/w	Classification	Note
ethanol	CAS No.: 64-17-5 EC No.: 200-578-6 REACH: 01-2120063206-63-XXXX Index No.: 603-002-00-5	25-40%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 (SCL: 50.00 %)	
carbon dioxide	CAS No.: 124-38-9 EC No.: 204-696-9 REACH: Index No.:	5-10%	Press. Gas (Liq.) , H280	[1]
propan-2-ol;isopropyl alcohol;isopropanol	CAS No.: 67-63-0 EC No.: 200-661-7 REACH: Index No.: 603-117-00-0	3-5%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
amider, C8-18- og C18-umættede, N,N-bis-(hydroxyethyl)	CAS No.: 68155-07-7 EC No.: 931-329-6 REACH: Index No.:	1-3%	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	[19]
2,2',2''-nitrilotriethanol	CAS No.: 102-71-6 EC No.: 203-049-8 REACH: Index No.:	1-3%	Skin Irrit. 2, H315 Eye Irrit. 2, H319	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

## Other information

[1] European occupational exposure limit.

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

#### Eye contact

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

#### Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

#### Burns

Not applicable.

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure. Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Not applicable.

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

Pressurised container. In a fire or if heated, a pressure increase will occur and the container may burst.

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the chemical emergency services on 72 85 20 00 (24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

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

No specific requirements.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

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

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

#### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid static electricity.

Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools.

Do not pierce or burn, even after use.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

##### Recommended storage material

Always store in containers of the same material as the original container.

##### Storage conditions

No specific requirements

##### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

### SECTION 8: Exposure controls/personal protection

#### 8.1. ▼ Control parameters

ethanol

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 1900

Long term exposure limit (8 hours) (ppm): 1000

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 3800

Short term exposure limit (15 minutes) (ppm): 2000

carbon dioxide

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 9000

Long term exposure limit (8 hours) (ppm): 5000

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 18000

Short term exposure limit (15 minutes) (ppm): 10000

Annotations:

E = Substance has an EC limit.

propan-2-ol;isopropyl alcohol;isopropanol

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 490

Long term exposure limit (8 hours) (ppm): 200

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 980

Short term exposure limit (15 minutes) (ppm): 400

2,2',2''-nitrilotriethanol

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 3,1

Long term exposure limit (8 hours) (ppm): 0,5

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 6,2  
Short term exposure limit (15 minutes) (ppm): 1

Statutory order 291 on exposure limits for substances and mixtures (19/03/2024)

## DNEL

2,2',2''-nitrilotriethanol

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Dermal	70 µg/cm <sup>2</sup>
Long term – Local effects - Workers	Dermal	140 µg/cm <sup>2</sup>
Long term – Systemic effects - General population	Dermal	2.66 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	7.5 mg/kg bw/day
Long term – Local effects - General population	Inhalation	400 µg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	1 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	3.3 mg/kg bw/day

amider, C8-18- og C18-umættede, N,N-bis-(hydroxyethyl)

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Dermal	0,056 mg/cm <sup>2</sup>
Long term – Local effects - General population	Dermal	56.2 µg/cm <sup>2</sup>
Long term – Local effects - Workers	Dermal	0,09 mg/cm <sup>2</sup>
Long term – Local effects - Workers	Dermal	93.6 µg/cm <sup>2</sup>
Long term – Systemic effects - General population	Dermal	2,5 mg/kg bw/day
Long term – Systemic effects - General population	Dermal	2.5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	4,16 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	4.16 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	21,73 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	21.73 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	73,4 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	73.4 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	6,25 mg/kg bw/day
Long term – Systemic effects - General population	Oral	6.25 mg/kg bw/day

ethanol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	206 mg/kg legemsvægt pr. dag
Long term – Systemic effects - General population	Dermal	206 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	343 mg/kg legemsvægt pr. dag
Long term – Systemic effects - Workers	Dermal	343 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	114 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	114 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	950 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	380 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	950 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	950 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	1900 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	1900 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	87 mg/kg

		legemsvægt pr. dag
Long term – Systemic effects - General population	Oral	87 mg/kg bw/day
propan-2-ol;isopropyl alcohol;isopropanol		
<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Systemic effects - General population	Dermal	319mg/kg bw/dag
Long term – Systemic effects - General population	Dermal	319 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	888 mg/kg bw/dag
Long term – Systemic effects - Workers	Dermal	888 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	89mg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	89 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	500 mg7m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	500 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	178 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	1000 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	26mg/kg bw/dag
Long term – Systemic effects - General population	Oral	26 mg/kg bw/day
Short term – Systemic effects - General population	Oral	51 mg/kg bw/day

#### PNEC

2,2',2''-nitrilotriethanol

<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		320 µg/L
Freshwater sediment		1.7 mg/kg
Intermittent release (freshwater)		5.12 mg/L
Marine water		32 µg/L
Marine water sediment		170 µg/kg
Sewage treatment plant		10 mg/L
Soil		151 µg/kg

amider, C8-18- og C18-umættede, N,N-bis-(hydroxyethyl)

<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		0,0024 mg/l
Freshwater		7 µg/L
Freshwater sediment		0,0145 mg/kg
Freshwater sediment		195 µg/kg
Intermittent release		0,024 mg/l
Intermittent release (freshwater)		24 µg/L
Marine water		0,00024 mg/l
Marine water		700 ng/L
Marine water sediment		19.5 µg/kg
Sewage treatment plant		0,83 mg/l
Sewage treatment plant		830 mg/L
Soil		0,00648 mg/kg tør vægt
Soil		34.8 µg/kg

ethanol

<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		0,96 mg/l

Freshwater	960 µg/L
Freshwater sediment	3,6 mg/kg
Freshwater sediment	3.6 mg/kg
Intermittent release	2,75 mg/l
Intermittent release (freshwater)	2.75 mg/L
Marine water	0,79 mg/l
Marine water	790 µg/L
Marine water sediment	2,9 mg/kg
Marine water sediment	2.9 mg/kg
Predators	380-720 mg/kg
Sewage treatment plant	580 mg/l
Sewage treatment plant	580 mg/L
Soil	0,63 mg/kg
Soil	630 µg/kg

propan-2-ol;isopropyl alcohol;isopropanol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		140,9 mg/l
Freshwater		140.9 mg/L
Freshwater sediment		552 mg/kg
Freshwater sediment		552 mg/kg
Intermittent release		140,9 mg/l
Intermittent release (freshwater)		140.9 mg/L
Marine water		140,9 mg/l
Marine water		140.9 mg/L
Marine water sediment		552mg/kg
Marine water sediment		552 mg/kg
Predators		160 mg/kg
Sewage treatment plant		251 mg/l
Sewage treatment plant		2.251 g/L
Soil		28 mg/kg
Soil		28 mg/kg

## 8.2. ▼ Exposure controls

Apply general control to prevent unnecessary exposure

### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

### Exposure scenarios

There are no exposure scenarios implemented for this product.

### ▼ Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

### Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

### Measures to avoid environmental exposure

Provide adequate general and local exhaust ventilation.

## Individual protection measures, such as personal protective equipment

### Generally

Use only CE marked protective equipment.

### Respiratory Equipment

Work situation	Type	Class	Colour	Standards
When developing vapour, use respiratory protection with approved filter	Normally, personal respiratory equipment is not necessary			

## Skin protection

Recommended	Type/Category	Standards
Dedicated work clothing should be worn	-	-



## Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	0.3	> 60	EN374-2, EN374-3, EN388



## Eye protection

Type	Standards
No special when used as intended.	-

## SECTION 9: Physical and chemical properties

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

#### Physical state

Aerosol

#### Colour

Colourless

#### Odour / Odour threshold

None

#### ▼ pH

No relevant or available data due to the nature of the product.

#### Density (g/cm<sup>3</sup>)

0.98

#### ▼ Kinematic viscosity

No relevant or available data due to the nature of the product.

#### ▼ Particle characteristics

No relevant or available data due to the nature of the product.

### Phase changes

#### ▼ Melting point/Freezing point (°C)

No relevant or available data due to the nature of the product.

#### Softening point/range (°C)

Does not apply to aerosols.

#### ▼ Boiling point (°C)

No relevant or available data due to the nature of the product.

#### ▼ Vapour pressure

No relevant or available data due to the nature of the product.

#### ▼ Relative vapour density

No relevant or available data due to the nature of the product.

#### ▼ Decomposition temperature (°C)

No relevant or available data due to the nature of the product.

### Data on fire and explosion hazards

#### Flash point (°C)

24

#### ▼ Flammability (°C)

No relevant or available data due to the nature of the product.



▼ Auto-ignition temperature (°C)

No relevant or available data due to the nature of the product.

▼ Lower and upper explosion limit (% v/v)

No relevant or available data due to the nature of the product.

Solubility

Solubility in water

Completely soluble

▼ n-octanol/water coefficient (LogKow)

No relevant or available data due to the nature of the product.

▼ Solubility in fat (g/L)

No relevant or available data due to the nature of the product.

9.2. Other information

Other physical and chemical parameters

No data available.

▼ Oxidizing properties

No relevant or available data due to the nature of the product.

## SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. ▼ Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

## SECTION 11: Toxicological information

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

Acute toxicity

Product/substance	ethanol
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	10470 mg/kg ·

Product/substance	ethanol
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>17100 mg/kg ·

Product/substance	ethanol
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	124,7 mg/l ·

Product/substance	carbon dioxide
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	470000 ppm 0,5 h ·

Product/substance	propan-2-ol;isopropyl alcohol;isopropanol
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Species: Rabbit  
Route of exposure: Dermal  
Test: LD50  
Result: >2000 mg/kg ·

Product/substance: propan-2-ol;isopropyl alcohol;isopropanol  
Species: Rat  
Route of exposure: Oral  
Test: LD50  
Result: 5840 mg/kg ·

Product/substance: propan-2-ol;isopropyl alcohol;isopropanol  
Species: Rat  
Route of exposure: Inhalation  
Test: LC50  
Result: 66,1mg/l 4 h ·

Product/substance: propan-2-ol;isopropyl alcohol;isopropanol  
Species: Rat  
Route of exposure: Inhalation  
Test: LC50  
Result: 47,5mg/l 8 h ·

Product/substance: amider, C8-18- og C18-umættede, N,N-bis-(hydroxyethyl)  
Species: Rat  
Route of exposure: Oral  
Test: LD50  
Result: >5000mg/kg ·

Product/substance: amider, C8-18- og C18-umættede, N,N-bis-(hydroxyethyl)  
Species: Rat  
Route of exposure: Oral  
Test: LC50  
Result: >2000 mg/kg ·

Product/substance: amider, C8-18- og C18-umættede, N,N-bis-(hydroxyethyl)  
Species: Rabbit  
Route of exposure: Dermal  
Test: LC50  
Result: >2000mg/kg ·

Product/substance: amider, C8-18- og C18-umættede, N,N-bis-(hydroxyethyl)  
Species: Rat  
Route of exposure: Dermal  
Test: NOAEL  
Result: >1000 mg/kg ·

Product/substance: 2,2',2''-nitrilotriethanol  
Species: Guinea pig  
Route of exposure: Oral  
Test: LD50  
Result: 2200 mg/kg ·

Product/substance: 2,2',2''-nitrilotriethanol  
Species: Mouse  
Route of exposure: Oral  
Test: LD50  
Result: 5846 mg/kg ·

Product/substance: 2,2',2''-nitrilotriethanol  
Species: Rabbit  
Route of exposure: Oral  
Test: LD50  
Result: 2200 mg/kg ·

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory sensitisation

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

#### Skin sensitisation

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

#### Germ cell mutagenicity

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

#### Carcinogenicity

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

#### Reproductive toxicity

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

### 11.2. Information on other hazards

#### Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system.

Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

#### Other information

propan-2-ol;isopropyl alcohol;isopropanol has been classified by IARC as a group 3 carcinogen.

2,2',2''-nitrilotriethanol has been classified by IARC as a group 3 carcinogen.

## SECTION 12: Ecological information

### 12.1. Toxicity

Product/substance	ethanol
Species:	Fish
Duration:	48 hours
Test:	LC50
Result:	8150 mg/l ·

Product/substance	ethanol
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	1100 mg/l ·

Product/substance	ethanol
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	9268-14221 mg/l ·

Product/substance	ethanol
Species:	Algae
Duration:	7 days
Test:	EC0
Result:	5000 mg/l ·

Product/substance ethanol  
Species: Crustacean  
Duration: 16 hours  
Test: EC0  
Result: 6500 mg/l ·

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
Species: Algae  
Duration: 8 days  
Test: NOEC  
Result: >1800 mg/l ·

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
Species: Fish  
Duration: 96 hours  
Test: LC50  
Result: 8970-9280 mg/l ·

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
Species: Daphnia  
Duration: 24 hours  
Test: EC50  
Result: 9714 mg/l ·

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
Species: Crustacean  
Duration: 18 hours  
Test: EC10  
Result: 5175 mg/l ·

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
Species: Crustacean  
Duration: No data available.  
Test: EC50  
Result: >1000mg/l ·

Product/substance amider, C8-18- og C18-umættede, N,N-bis-(hydroxyethyl)  
Species: Fish  
Duration: 96 hours  
Test: LC50  
Result: 1-5mg/l ·

Product/substance amider, C8-18- og C18-umættede, N,N-bis-(hydroxyethyl)  
Species: Daphnia  
Duration: 72 hours  
Test: EC50  
Result: 5-15 mg/l ·

Product/substance amider, C8-18- og C18-umættede, N,N-bis-(hydroxyethyl)  
Species: Algae  
Duration: 48 hours  
Test: EC50  
Result: 1-5 mg/l ·

Product/substance 2,2',2''-nitrilotriethanol  
Species: Fish  
Duration: No data available.  
Test: LC50  
Result: 1800-11800 mg/l ·

Product/substance 2,2',2''-nitrilotriethanol  
Species: Daphnia  
Duration: No data available.  
Test: LC50

Result: 1390-2038 mg/l ·

Product/substance 2,2',2''-nitrilotriethanol  
Species: Algae  
Duration: No data available.  
Test: EC50  
Result: 470-750 mg/l ·

Product/substance 2,2',2''-nitrilotriethanol  
Species: Crustacean  
Duration: No data available.  
Test: IC50  
Result: >5000 mg/l ·

Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

Product/substance ethanol  
Conclusion: Readily biodegradable

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
Result: 95%  
Conclusion: Readily biodegradable  
Test: OECD 301 E

Product/substance 2,2',2''-nitrilotriethanol  
Conclusion: Readily biodegradable

#### 12.3. Bioaccumulative potential

Product/substance ethanol  
Conclusion: No potential for bioaccumulation

Product/substance carbon dioxide  
LogKow: 0,8300  
Conclusion: No potential for bioaccumulation

Product/substance propan-2-ol;isopropyl alcohol;isopropanol  
Conclusion: No potential for bioaccumulation

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

#### 12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

#### 12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

### SECTION 13: Disposal considerations

#### 13.1. ▼Waste treatment methods

Product is covered by the regulations on hazardous waste. (\*)

To the extent the material has not been subject to regular tests of peroxide formation the waste shall be treated as explosive waste.

HP 4 - Irritant (skin irritation and eye damage)

Dispose of contents/container to an approved waste disposal plant.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

##### EWC code

16 05 04\* Gases in pressure containers (including halons) containing dangerous substances




##### Specific labelling

Not applicable.

## Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

### SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN1950	AEROSOLS	Transport hazard class: 2 Label: 2.2 Classification code: 5A 	-	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1950	AEROSOLS	Transport hazard class: 2 Label: 2.2 Classification code: 5A 	-	No	Limited quantities: 1 L EmS: F-D S-U See below for additional information.
IATA	UN1950	AEROSOLS	Transport hazard class: 2 Label: 2.2 Classification code: 5A 	-	No	See below for additional information.

\* Packing group

\*\* Environmental hazards

#### ▼ Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Maritime transport in bulk according to IMO instruments

No data available.

### SECTION 15: Regulatory information

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

##### Restrictions for application

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

#### Demands for specific education

No specific requirements.

#### SEVESO - Categories / dangerous substances

Not applicable.

#### ▼ REACH, Annex XVII

ethanol is subject to REACH restrictions (entry 40).

propan-2-ol;isopropyl alcohol;isopropanol is subject to REACH restrictions (entry 40).

#### Additional information

Not applicable.

#### Sources

The Danish Working Environment Authority's executive order no. 1049 of 30 May 2021 on young people's work.

Based on Council Directive 94/33 / EC of 22 June 1994 on the protection of young people at work.

Pregnant workers and workers who are breastfeeding (AT Guide A.1.8-6, amended 2020).

Executive Order no. 247 of 14 March 2014 on interior design, etc. of aerosols, as amended by EO No. 301 of 27 March 2014, EO no. 478 of 25 May 2016 and EO 1336 of 29 November 2017.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information

#### Full text of H-phrases as mentioned in section 3

H225, Highly flammable liquid and vapour.

H280, Contains gas under pressure; may explode if heated.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H336, May cause drowsiness or dizziness.

H411, Toxic to aquatic life with long lasting effects.

#### ▼ Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

GWP = Global warming potential

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
 RRN = REACH Registration Number  
 SCL = A specific concentration limit  
 SVHC = Substances of Very High Concern  
 STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
 STOT-SE = Specific Target Organ Toxicity - Single Exposure  
 TWA = Time weighted average  
 UN = United Nations  
 UVBC = Unknown or variable composition, complex reaction products or of biological materials  
 VOC = Volatile Organic Compound  
 vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

#### The safety data sheet is validated by

Lisbet Tetsche

#### ▼ Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: DK-en