



According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

## SAFETY DATA SHEET

### LanoPro Green Shield H39

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

##### 1.1. Product identifier

Trade name: LanoPro Green Shield H39

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

Relevant identified uses of the substance or mixture: Rust protection

Uses advised against : None known.

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

Company and address: **LanoPro Production AS**

Smedveien 7  
1344 Haslum  
Norway  
+47 40 00 15 14  
www.lanopro.com

E-mail: mail@lanopro.com

Revision: 05/03/2025

SDS Version: 1.0

##### 1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)

General public:

England - Dial 111 to reach NHS 111 (24 hour service)

Scotland - Dial 112 to reach NHS 24 (24 hour service)

Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)

See section 4 "First aid measures".

#### SECTION 2: Hazards identification

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

Not classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

##### 2.2. Label elements

Hazard pictogram(s): Not applicable.

Signal word: Not applicable.

Hazard statement(s): Not applicable.

Precautionary statement(s):

*General:* -

*Prevention:* -

*Response:* -

*Storage:* -

*Disposal:* -

Hazardous substances: None known.

Additional labelling: Not applicable.

##### 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



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### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

| Product/substance  | Identifiers   | % w/w  | Classification | Note |
|--|---|--------|----------------|------|
| Benzenesulfonic acid, mono-C16-<br>24-alkyl derivs., calcium salts | CAS No.: 70024-69-0<br>EC No.: 274-263-7<br>UK-REACH:<br>Index No.: | <0.25% |                | [19] |

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

### Other information

[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.<br>Contact a doctor if in doubt about the injured person's condition or if the symptoms persist.<br>Never give an unconscious person water or other drink. |
| Inhalation:          | In case of discomfort: bring the person into fresh air.   |
| Skin contact:        | Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.   |
| Eye contact:         | Rinse gently with lukewarm water. Remove any contact lenses if this is easy to do. Continue rinsing. In case of persistent eye irritation or discomfort: Seek medical help.   |
| Ingestion:           | Rinse and flush mouth thoroughly and consume large quantities of water. In case of continued discomfort: seek medical assistance and bring this safety data sheet.  |
| Burns:               | Not applicable.   |

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

None known.

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

Treat symptomatically.

### Information to medics

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

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.  
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

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.

### 5.3. Advice for firefighters

No specific requirements.

## SECTION 6: Accidental release measures

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

Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.  
Keep unauthorized persons away from the spill

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth



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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

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

Recommended storage material: Keep only in original packaging.

Storage conditions: Dry, cool and well ventilated

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

No substances are listed in the national list of substances with an occupational exposure limit.

#### DNEL

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

| Duration:   | Route of exposure: | DNEL:                   |
|---|--------------------|-------------------------|
| Long term - Local effects - General population    | Dermal             | 513 µg/cm <sup>2</sup>  |
| Long term - Local effects - Workers               | Dermal             | 1.03 mg/cm <sup>2</sup> |
| Long term - Systemic effects - General population | Dermal             | 1.667 mg/kg bw/day      |
| Long term - Systemic effects - Workers            | Dermal             | 3.33 mg/kg bw/day       |
| Long term - Systemic effects - General population | Inhalation         | 2.9 mg/m <sup>3</sup>   |
| Long term - Systemic effects - Workers            | Inhalation         | 11.75 mg/m <sup>3</sup> |
| Long term - Systemic effects - General population | Oral               | 833.3 µg/kg bw/day      |

#### PNEC

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

| Route of exposure:                | Duration of Exposure: | PNEC:           |
|-----------------------------------|-----------------------|-----------------|
| Freshwater                        |                       | 1 mg/L          |
| Freshwater sediment               |                       | 226000000 mg/kg |
| Intermittent release (freshwater) |                       | 10 mg/L         |
| Marine water                      |                       | 1 mg/L          |
| Marine water sediment             |                       | 226000000 mg/kg |
| Predators                         |                       | 16.667 mg/kg    |
| Sewage treatment plant            |                       | 1 g/L           |
| Soil                              |                       | 271000 g/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 vapours.



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Hygiene measures: Wash hands after use.  
Measures to avoid environmental exposure: No specific requirements.

#### Individual protection measures, such as personal protective equipment

Generally: Use only UKCA marked protective equipment.

Respiratory Equipment:

| Type                     | Class | Colour | Standards |
|--------------------------|-------|--------|-----------|
| No specific requirements |       |        |           |

Skin protection:

| Recommended               | Type/Category | Standards |
|---------------------------|---------------|-----------|
| No specific requirements. | -             | -         |

Hand protection:

| Work situation  | Material | Glove thickness (mm) | Breakthrough time (min.) | Standards               |
|---|----------|----------------------|--------------------------|-------------------------|
| No specific requirements                                  | -        | -                    | -                        | -                       |
| In the event of prolonged exposure or high concentrations | Nitrile  | 0,2                  | > 480                    | EN374-2, EN374-3, EN388 |



Eye protection:

| Work situation  | Type  | Standards |
|---|---|-----------|
| No specific requirements                              | -   | -         |
| When there is risk of splash- / intermittent exposure | Face shield alternatively safety glasses with side shields. | EN166     |



## SECTION 9: Physical and chemical properties

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

Physical state: Liquid  
Colour: Gray  
Odour / Odour threshold: Faint, Apple  
pH: No data available.  
Density (g/cm<sup>3</sup>): No data available.  
Kinematic viscosity: No data available.  
Particle characteristics: Does not apply to liquids.

### Phase changes

Melting point/Freezing point (°C): No data available.  
Softening point/range (°C): Does not apply to liquids.  
Boiling point (°C): No data available.  
Vapour pressure: No data available.  
Relative vapour density: No data available.  
Decomposition temperature (°C): No data available.

### Data on fire and explosion hazards

Flash point (°C): No data available.  
Flammability (°C): No data available.  
Auto-ignition temperature (°C): No data available.



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Lower and upper explosion No data available.  
limit (% v/v):

#### **Solubility**

Solubility in water: No data available.  
n-octanol/water coefficient No data available.  
(LogK<sub>ow</sub>):  
Solubility in fat (g/L): No data available.

#### **9.2. Other information**

Oxidizing properties: No data available.  
Other physical and chemical No data available.  
parameters:

### **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**

None known.

#### **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 as retained and amended in UK law**

##### **Acute toxicity**

|                    |  |
|--------------------|--|
| Product/substance  | Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts |
| Test method:       | OECD 401   |
| Species:           | Rat  |
| Route of exposure: | Oral   |
| Test:              | LD50   |
| Result:            | > 5000 mg/kg bw  |

|                    |  |
|--------------------|--|
| Product/substance  | Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts |
| Species:           | Rabbit   |
| Route of exposure: | Dermal   |
| Test:              | LD50   |
| Result:            | >4000 mg/kg bw   |

##### **Skin corrosion/irritation**

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

##### **Serious eye damage/irritation**

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

##### **Respiratory sensitisation**

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

##### **Skin sensitisation**

|                   |  |
|-------------------|--|
| Product/substance | Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts |
| Result:           | No adverse effect observed (not sensitising)                   |

##### **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**



According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

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**

None known.

#### **Endocrine disrupting properties**

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

#### **Other information**

None known.

## **SECTION 12: Ecological information**

#### **12.1. Toxicity**

Product/substance Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

Species: Daphnia, Daphnia magna

Duration: 48 hours

Test: EC50

Result: > 1000 mg/L

Product/substance Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

Species: Algae, Pseudokirchneriella subcapitata

Duration: 72 hours

Test: EC50

Result: > 1000 mg/L

Product/substance Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

Species: Algae, Pseudokirchneriella subcapitata

Duration: 72 hours

Test: ErC50

Result: > 1000 mg/L

#### **12.2. Persistence and degradability**

Product/substance Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

Result: 8.6 %

Conclusion: -

Test: OECD 301 D

#### **12.3. Bioaccumulative potential**

Product/substance Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

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**

None known.

## **SECTION 13: Disposal considerations**

#### **Waste treatment methods**

Product is not covered by regulations on dangerous waste.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.



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**EWC code**

20 01 30 Detergents other than those mentioned in 20 01 29

**Specific labelling****Contaminated packing**

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

**SECTION 14: Transport information**

|      | 14.1<br>UN / ID | 14.2<br>UN proper shipping name | 14.3<br>Hazard class(es) | 14.4<br>PG* | 14.5<br>Env** | Other<br>information: |
|------|-----------------|---------------------------------|--------------------------|-------------|---------------|-----------------------|
| ADR  | -               | -                               | -                        | -           | -             | -                     |
| IMDG | -               | -                               | -                        | -           | -             | -                     |
| IATA | -               | -                               | -                        | -           | -             | -                     |

\* Packing group

\*\* Environmental hazards

**Additional information**

Not dangerous goods according to ADR, IATA and IMDG.

**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: No special.

Demands for specific education: No specific requirements.

Control of Major Accident Hazards (COMAH) -

Categories / dangerous substances:

Additional information: Not applicable.

Sources: Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

**15.2. Chemical safety assessment**

No

**SECTION 16: Other information****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



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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**

In accordance with UK-REACH, a safety data sheet is not required for this product. This safety data sheet has been created on a voluntary basis to distribute relevant information as required by UK-REACH.

#### **The safety data sheet is validated by**

Safety Data Sheet Consulting AS

#### **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: GB-en