

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

- **1.1 Product identifier**
- **Trade name:** Bylacleam SR
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Surface cleanser
Paint remover
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** BYLA GmbH, Industriestr. 12, D-65594 Runkel
- **Further information obtainable from:** Abteilung Umweltschutz, eMail: contact@byla.de
- **1.4 Emergency telephone number:** Tel. +49-(0)-6482-91200, contact@byla.de

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS02, GHS07, GHS08, GHS09
- **Signal word** Danger

- **Hazard-determining components of labelling:**

heptane

acetone

- **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

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· **Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P321 Specific treatment (see on this label).
- P331 Do NOT induce vomiting.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

| | | |
|------------------------------------|--|--------|
| CAS: 142-82-5 EINECS: 205-563-8 | heptane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336 | ≤60.0% |
| CAS: 64-17-5 EINECS: 200-578-6 | ethanol ⚠ Flam. Liq. 2, H225 | ≤20.0% |
| CAS: 67-64-1 EINECS: 200-662-2 | acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336 | ≤20.0% |

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:** If symptoms persist consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:**
Water
Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Storage class:** 3
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

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· 8.1 Control parameters**· Ingredients with limit values that require monitoring at the workplace:****142-82-5 heptane**WEL Long-term value: 2085 mg/m³, 500 ppm**64-17-5 ethanol**WEL Long-term value: 1920 mg/m³, 1000 ppm**67-64-1 acetone**WEL Short-term value: 3620 mg/m³, 1500 ppm
Long-term value: 1210 mg/m³, 500 ppm**· DNELs****64-17-5 ethanol**

| | | |
|------------|----------------------|---|
| Oral | DNEL (Consumer) | 87 mg/kg /d Long-term – systemic effects |
| Dermal | DNEL (Consumer) | 950 mg/kg /d Short-term – local effects |
| | DNEL (Place of Work) | 343 mg/kg /d Long-term – systemic effects |
| Inhalative | DNEL (Consumer) | 950 mg/m ³ Long-term – systemic effects |
| | DNEL (Place of Work) | 1,900 mg/m ³ Short-term – local effects |

67-64-1 acetone

| | | |
|------------|---------------------------|---|
| Oral | DNEL (Consumer) | 62 mg/kg /d Long-term – systemic effects |
| Dermal | DNEL (Consumer) | 62 mg/kg /d Long-term – systemic effects |
| | DNEL (Place of Work) | 186 mg/kg /d Long-term – systemic effects |
| Inhalative | DNEL (Consumer) | 200 mg/m ³ Long-term – systemic effects |
| | DNEL (Place of Work, S-L) | 2,420 mg/m ³ Short-term – local effects |
| | DNEL (Place of Work) | 1,210 mg/m ³ Long-term – systemic effects |

· PNECs**64-17-5 ethanol**

| | | |
|------|------------------------------------|---------------|
| Oral | PNEC (Food) | 0.72 mg/kg |
| | PNEC (Waste water treatment plant) | 580,000 µg/l |
| | PNEC (Sediment of fresh water) | 3.6 mg/kg /d |
| | PNEC (Sediment of sea water) | 2.9 mg/kg /d |
| | PNEC (Ground) | 0.63 mg/kg /d |
| | PNEC (Water, sporadic release) | 2.75 mg/l |
| | PNEC (Fresh water) | 960 µg/l |
| | PNEC (Sea water) | 790 µg/l |

67-64-1 acetone

| | | |
|--|------------------------------------|----------------|
| | PNEC (Waste water treatment plant) | 100,000 µg/l |
| | PNEC (Sediment of fresh water) | 30.04 mg/kg /d |
| | PNEC (Sediment of sea water) | 3.04 mg/kg /d |
| | PNEC (Ground) | 29.5 mg/kg /d |

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| | |
|--------------------|-------------|
| PNEC (Fresh water) | 10,600 µg/l |
| PNEC (Sea water) | 10,600 µg/l |

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

- **Material of gloves** PVC or PE gloves
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

| | |
|---------|-------------|
| Form: | Fluid |
| Colour: | Colourless |
| Odour: | Petrol-like |
- **Change in condition**

| | |
|--|---------------|
| Melting point/freezing point: | Undetermined. |
| Initial boiling point and boiling range: | 55 °C |
- **Flash point:** -19 °C
- **Ignition temperature:** 215 °C
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Explosion limits:**

| | |
|--------|------------|
| Lower: | 1.1 Vol % |
| Upper: | 15.0 Vol % |
- **Vapour pressure at 20 °C:** 233 hPa
- **Density at 20 °C:** 0.724 g/cm³

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- | | |
|--|--|
| · Solubility in / Miscibility with water: | Not miscible or difficult to mix. |
| · Viscosity: Dynamic at 20 °C: | 2 mPas |
| · Solvent content: Organic solvents: Water: | 100.0 % 0.0 % |
| · Solids content: | 0.0 % |
| · 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

64-17-5 ethanol

| | | |
|------------|-----------|-------------------|
| Oral | LD50 | 7,060 mg/kg (Rat) |
| Inhalative | LC50 (4h) | 20,000 mg/l (Rat) |

67-64-1 acetone

| | | |
|------------|-----------|--|
| Oral | LD50 | 5,800 mg/kg (Rat) |
| Dermal | LD50 | >2,000 mg/kg (Rat) 20,000 mg/kg (rbt) |
| Inhalative | LC50 (4h) | >20 mg/l (Rat) |

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

142-82-5 heptane

| | |
|-------------------------|------------------|
| LC50/EC50/IC50 (Fishes) | 375 mg/l 96 h |
|-------------------------|------------------|

64-17-5 ethanol

| | |
|-------------------------|---------------------|
| LC50/EC50/IC50 (Fishes) | 13,000 mg/l 95 h |
|-------------------------|---------------------|

| | |
|------------------------|------------------|
| LC50/EC50/IC50 (Algae) | 275 mg/l 72 h |
|------------------------|------------------|

| | |
|--------------------------------|---------------------|
| LC50/EC50/IC50 (Daphnia Magna) | 12,340 mg/l 48 h |
|--------------------------------|---------------------|

67-64-1 acetone

| | |
|-------------------------|-------------|
| LC50/EC50/IC50 (Fishes) | >1,000 mg/l |
|-------------------------|-------------|

| | |
|--------------------------------|-------------|
| LC50/EC50/IC50 (Daphnia Magna) | >1,000 mg/l |
|--------------------------------|-------------|

12.2 **Persistence and degradability** No further relevant information available.

12.3 **Bioaccumulative potential** No further relevant information available.

12.4 **Mobility in soil** No further relevant information available.

Additional ecological information:

General notes:

Also poisonous for fish and plankton in water bodies.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 **Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

| | |
|-----------|--|
| 07 01 04* | other organic solvents, washing liquids and mother liquors |
|-----------|--|

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA UN1263

14.2 UN proper shipping name

ADR 1263 PAINT (vapour pressure at 50°C not more than 110 kPa), ENVIRONMENTALLY HAZARDOUS

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| | |
|---------------------|--------------|
| · IMDG, IATA | PAINT |
|---------------------|--------------|

| | |
|--|--|
| · 14.3 Transport hazard class(es) | |
|--|--|

| | |
|--------------|--|
| · ADR | |
|--------------|--|



| | |
|----------------|---------------------------|
| · Class | 3 (F1) Flammable liquids. |
| · Label | 3 |

| | |
|---------------------|--|
| · IMDG, IATA | |
|---------------------|--|



| | |
|----------------|----------------------|
| · Class | 3 Flammable liquids. |
| · Label | 3 |

| | |
|-----------------------------|--|
| · 14.4 Packing group | |
|-----------------------------|--|

| | |
|--------------------------|----|
| · ADR, IMDG, IATA | II |
|--------------------------|----|

| | |
|--------------------------------------|--|
| · 14.5 Environmental hazards: | |
|--------------------------------------|--|

| | |
|---------------------------------|------------------------|
| · Marine pollutant: | No |
| · Special marking (ADR): | Symbol (fish and tree) |

| | |
|--|-----------------------------|
| · 14.6 Special precautions for user | Warning: Flammable liquids. |
|--|-----------------------------|

| | |
|--------------------------------|---------|
| · Danger code (Kemler): | 33 |
| · EMS Number: | F-E,S-E |
| · Stowage Category | B |

| | |
|--|-----------------|
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
|--|-----------------|

| | |
|--|--|
| · Transport/Additional information: | |
|--|--|

| | |
|--------------|--|
| · ADR | |
|--------------|--|

| | |
|-----------------------------------|---|
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |

| | |
|----------------------------------|-----|
| · Transport category | 2 |
| · Tunnel restriction code | D/E |

| | |
|---------------|--|
| · IMDG | |
|---------------|--|

| | |
|-----------------------------------|---|
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |

| | |
|---------------------------------|---|
| · UN "Model Regulation": | UN 1263 PAINT (VAPOUR PRESSURE AT 50°C NOT MORE THAN 110 KPA), 3, II, ENVIRONMENTALLY HAZARDOUS |
|---------------------------------|---|

SECTION 15: Regulatory information

| | |
|--|---|
| · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: | 3 |

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· **National regulations:**

· **Technical instructions (air):**

| Class | Share in % |
|-------|------------|
| NK | 100.0 |

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· *** Data compared to the previous version altered.**