

Hycal 541 EPBD Green Envirosys

Revision date 16-Nov-2018

Supersedes date 12-Sep-2018

Version 1.04

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Hycal 541 EPBD Green Envirosys

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

Recommended use Lubricating grease only for industrial use.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Axel Christiernsson AB
Strandvägen 10
SE 449 41 Nol
Sweden
Telephone: +46 (0) 303 332500

For further information, please contact
info@axelch.com

1.4. Emergency telephone number

Emergency telephone +46 (0) 303 332500 during working hours

Emergency telephone - §45 - (EC)1272/2008

Europe 112

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

Symbols/Pictograms None

Signal word None

2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**Mixtures**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

Ingredient comments

This product is an anhydrous calcium grease based on biodegradable synthetic ester and vegetable oils with additives.

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES**4.1. Description of first aid measures**

Inhalation	Move to fresh air in case of accidental inhalation of vapors.
Skin contact	Wash with soap and water.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.
Ingestion	Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

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

Symptoms None known.

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

Note to physicians Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES**5.1. Extinguishing media****Suitable extinguishing media**

Use CO₂, dry chemical, or foam.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Not flammable. Fire may produce irritating and/or toxic gases.

5.3. Advice for firefighters

In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions**

Extremely slippery when spilled. Use personal protection recommended in Section 8.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

6.4. Reference to other sections

Other information

See Section 12: ECOLOGICAL INFORMATION.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Extremely slippery when spilled.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Avoid prolonged or repeated contact with skin.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Keep containers tightly closed in a cool, well-ventilated place. Keep at a temperature not exceeding 45°C. Keep away from heat, sparks and open flame.

7.3. Specific end use(s)

Risk management methods

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

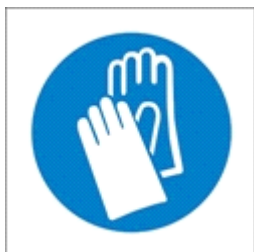
Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls None under normal processing.

Personal protective equipment



Hand protection	Wear protective nitrile rubber gloves. Thickness ≥ 0.38 mm - breakthrough time >480 minutes. Thickness 0.1 mm - splash protection. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Conform EN 374-2 and EN 347-3.
Eye/face Protection	Avoid contact with eyes.
Body protection	Suitable protective clothing.
Respiratory protection	None under normal processing. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	Prevent product from entering drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Semi-solid
Appearance	Smooth
Color	green
Odor threshold	No information available
Explosive properties	No information available
Oxidizing properties	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No information available
Melting point/freezing point		No information available
Boiling point/boiling range		Not applicable
Flash point	> 150 °C / > 302 °F	Based on base oils
Evaporation rate		Not applicable
Flammability (solid, gas)		No information available
Flammability limits in air		No information available
Vapor pressure		Not applicable
Vapor Density		Not applicable
Specific gravity		No information available
Solubility(ies)		No information available
Partition coefficient (n-octanol/water)		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Kinematic viscosity		No information available
Dynamic viscosity		No information available

9.2. Other information

Density	< 1000 kg/m ³ @ 25 °C / 77 °F
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Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

None under normal processing.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity	Not hazardous based on component data.
Skin corrosion/irritation	Not hazardous based on component data.
Serious eye damage/eye irritation	Not hazardous based on component data.
Sensitization	Not hazardous based on component data.
Germ cell mutagenicity	Not hazardous based on component data.
Carcinogenicity	Not hazardous based on component data.
Reproductive toxicity	Not hazardous based on component data.
STOT-single exposure	Not hazardous based on component data.
STOT-repeated exposure	Not hazardous based on component data.
Aspiration hazard	Not hazardous based on component data.

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50	2083 mg/kg
Dermal LD50	3635 mg/kg

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation	Inhalation of oil mist may cause irritation, headaches, nausea and breathing difficulties.
Eye contact	Not expected to cause eye irritation.
Skin contact	Prolonged contact may cause redness and irritation.
Ingestion	Malaise (vague feeling of discomfort).

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity	Not regarded as dangerous for the environment.
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12.2. Persistence and degradability

The principal constituents are biodegradable.

12.3. Bioaccumulative potential

Material does not bioaccumulate.

12.4. Mobility in soil

Mobility in soil

After release, adsorbs onto soil.

Mobility

Insoluble in water.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products

Disposal should be in accordance with applicable regional, national and local laws and regulations

Contaminated packaging

Dispose of in accordance with federal, state and local regulations.

Waste codes / waste designations according to LoW / AVV 13 08 99*

Section 14: TRANSPORT INFORMATION

Not regulated according to ADR/RID, IMDG, IATA.

14.1. UN number

Not regulated

14.2. UN proper shipping name

Not regulated

14.3. Transport hazard class(es)

Not regulated

14.4. Packing group

Not regulated

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

Section 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water hazard class (WGK)** non-hazardous to water (nwg)**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	-
IECSC	Complies
AICS	-
KECL	-
NZIoC	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION**Full text of H-Statements referred to under section 3****Key or legend to abbreviations and acronyms used in the safety data sheet**

ADR Accord européen relatif au transport international de marchandises Dangereuses par Route
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]
EC European Commission
EEC European Economic Community
EUH statement = CLP-specific Hazard statement
GHS Globally Harmonised System of Classification and Labelling of Chemicals
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods Code
LD50 Median Lethal Dose for 50% of subjects
REACH Registration, Evaluation and Authorization of CHemicals
RID Règlement concernant le transport international ferroviaire des marchandises dangereuses
WGK Wassergefährdungsklasse

Revision date 16-Nov-2018

Revision note SDS sections updated, 11, 15.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

End of Safety Data Sheet