

SAFETY DATA SHEET

2025-02-25

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

1.1 Product identifier

Product name: Milbosana
Chemical name: Aqueous solution of sophorolipids

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

Identified uses: Industrial use
Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Company name : Growchampion GmbH
Marburger Str. 1b
35649 Bischoffen
Germany

Telephone : +49 6444 939901800
E-mail : info@hühnerbaron.de

SECTION 2: Hazards identification

2.1 Classification of the mixture

Not classified according to CLP regulation

2.2 Label Elements

No hazardous substance or mixture.

2.3 Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1 Chemical name:

Aqueous solution of sophorolipids (lactone - and acid form)

3.2 Mixtures

Chemical name	Concentration	EC-No.	REACH-registration No.	M-factor	Classification (EC) No. 1272/2008
Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed	>=0.5- <5%	941-809-7	01-212007936549	No data available	Eye Irrit: 2: H319

SECTION 4: First aid measures

4.1	General:	Remove soiled or soaked clothing immediately.
	Description of first aid measures	
	Inhalation:	Ensure supply of fresh air. In the event of symptoms take medical necessary.
	Skin contact:	Wash off with plenty of water immediately, seek medical advice if necessary.
	Eye contact:	Immediately flush eye(s) with plenty of water. Call a physician immediately.
	Ingestion:	Thoroughly clean the mouth with water if symptoms persist, call a physician.
4.2	Most important symptoms and effects, both acute and delayed:	Eye irritation
4.3	Indication of any immediate medical attention and special treatment needed	
	Hazards:	No data available.
	Treatment:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1	General Fire Hazards:	Cool endangered containers with water spray jet.
	Extinguishing media	
	Suitable extinguishing media:	Foam, carbon dioxide, dry powder, water spray
	Unsuitable extinguishing media :	Full water jet
5.2	Special hazards arising from the substance or mixture:	In the event of fire the following can be released: - carbon dioxide, carbon monoxide. Under certain conditions of combustion traces of other toxic substances cannot be excluded
5.3	Advice for firefighters:	
	Special fire fighting procedures:	No specific precautions.
	Special protective equipment for fire-fighters:	Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus and wear protective suit

SECTION 6: Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures:	Use personal protective clothing
6.1.1	For non-emergency personnel:	No data available.
6.1.2	For emergency responders:	No data available.

6.2 Environmental precautions:

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up:

Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulation. Flush away with water.

6.4 Reference to other Sections:

For further information on exposure monitoring and disposal see sections 8 and 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Avoid contact with skin and eyes. Do not inhale gases/vapours/aerosols. Ensure adequate ventilation. Wear respiratory protection when spraying.

7.2 Conditions for safe storage, including any incompatibilities:

7.3 Specific end use(s):

See chapters ' Protective Measures for Safe Handling' and ' Safe Storage Conditions' or, if available, the enclosed Exposure Scenairo.

SECTION 8: Exposure controls/personal protection:

8.1 Control Parameters

Occupational Exposure Limits None of the components have assigned exposure limits.
DNEL-Values: Remarks: No DNEL/DMELvalues on file
PNEC-Values: Remarks: No PNEC values on file.

8.2 Exposure controls

Appropriate Engineering Controls: Ensure adequate ventilation
Individual protection measures, such as personal protective equipment
Eye/face protection: No special protection is required.
Hand protection: No special protection is required.
Skin and Body protection: No special protection is required
Respiratory protection: Use certified respiratory protection in accordance with EU requirements (89/656 / EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently reduced with collective technical protective equipment or with measures, methods or procedures of the work organization.
Hygiene measures: Wash hands before breaks and immediately after handling the product.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	liquid
Form:	liquid
Color:	Slightly yellow
Odor:	Specific to the product
Odor threshold:	Not measured
pH:	5 - 6 (20 °C) delivered form
Freezing point:	Not measured
Boiling point:	> 100 °C
Flash point:	Not applicable
Evaporation rate:	Not measured
Flammability (solid, gas):	No data available
Flammability limit - Upper (%):	Not measured
Flammability limit - Lower (%):	Not measured
Vapor pressure:	Not measured
Vapor density (air=1):	Not measured
Density:	0,95 - 1,10 g/cm ³ (25 °C)
Relative density:	Not determined
Solubility in water:	20 g/l (20 °C) miscible
Solubility (other):	Not determined
Partition coefficient (n-octanol/water):	Not measured
Self ignition temperature:	Not measured
Decomposition temperature:	Not measured
Kinematic viscosity:	Not determined
Dynamic viscosity:	50 - 500 mPa.s (25 °C, DIN 53015)

9.2 Other information

	Not measured
	Not oxidizing
Minimum ignition temperature:	Not measured
Metal Corrosion:	Not corrosive to metals

N 10: Stability and reactivity

10.1 Reactivity:

See section 'Possibility of hazardous reactions'

10.2 Chemical Stability:

stable under normal conditions.

10.3 Possibility of hazardous reactions:

No hazardous reactions with proper storage and handling.

10.4 Conditions to avoid:

Unknown

10.5 Incompatible materials:

Unknown

10.6 Hazardous decomposition products :

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on likely routes of exposure

Inhalation:	Relevant route of exposure. Information on effects are given below.
Skin contact:	Relevant route of exposure. Information on effects are given below.
Eye contact:	Relevant route of exposure. Information on effects are given below.
Ingestion:	If handled correctly, not a relevant route of exposure. Information on effects are given below.

11.2 Information on toxicological effects

Acute toxicity	
Oral Product:	The results based on calculation as per chapter 3.1.3.6 Directive 1272/2008/EC are above the classification limits. LD50 (rat (female)): > 2.000 mg/kg (OECD 423, yes)
Components:	
Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed	LD50 (Rat, female): > 2.000 mg/kg
Dermal Product:	No data available
Components:	
Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed	No data available.
Inhalation Product:	No data available.
Components:	
Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed	No data available.

Repeated dose toxicity product:	No data available.
Components:	
Sophorolipids:	No data available.
fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed	
Skin corrosion/irritation: Product:	Non-irritant EPISKIN Human Skin Model Test non-irritant
Components:	EPISKIN Human Skin Model Test Not irritating.
Sophorolipids:	
fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed	Irritating
Serious Eye Damage/Eye irritation: Product:	OECD TG 437 Irritating.
Components:	Irritating. OECD TG 437 Irritating
Sophorolipids:	
fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed	Not sensitizing Local Lymph Node Assay not sensitizing
Respiratory or Skin sensitization: Product:	Local Lymph Node Assay, OECD 429 (Mouse): not sensitizing
Components:	
Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed	No data available.
Germ Cell Mutagenicity In vitro Product:	
Components:	

Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed Ames-test (see user defined free text): negative

In vivo Product: No data available.

Components:

Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed No data available.

Carcinogenicity product: No data available.

Components:

Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed No data available.

Reproductive toxicity product: No data available.

Components:

Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed No data available

Specific Target Organ Toxicity -Single Exposure

Product: No data available

Components:

Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed No data available.

Specific Target Organ Toxicity – Repeated Exposure

Product: No data available

Components:

Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed	No data available
Aspiration Hazard product:	Not classified
Components:	
Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed	No data available.
Other adverse effects:	No toxicological tests are available on the product. Causes serious eye irritation.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish Product: No data available.

Component

Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed No data available.

Aquatic Invertebrates No data available.

Product:

Components

Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed No data available.

Toxicity to Aquatic Plants No data available.

Product:

Components

Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with No data available.

**yeast Candida Bombicola,
partially hydrolysed**

Toxicity to microorganismes No data available.

Product:

Components

Sophorolipids: fermentation No data available.

**products of glucose and
fatty acids, C18-unsatd.,
esters with glycerol with
yeast Candida Bombicola,
partially hydrolysed**

Chronic Toxicity

Fish Product: No data available.

Components

Sophorolipids: fermentation No data available.

**products of glucose and
fatty acids, C18-unsatd.,
esters with glycerol with
yeast Candida Bombicola,
partially hydrolysed**

Aquatic Invertebrates

Product: NOEC (Daphnia magna (water flea), 21 d): 25 mg/l

(OECD 211) values refer to the main component.

Components

Sophorolipids: fermentation NOEC (Daphnia magna (water flea), 21 d): 25 mg/l

(OECD 211)

products of glucose and LOEC (Daphnia magna (water flea), 21 d): 50 mg/l

fatty acids, C18-unsatd., (OECD 211)

esters with glycerol with

yeast Candida Bombicola,

partially hydrolysed

Toxicity to Aquatic Plants No data available.

Product:

Components No data available.

Sophorolipids: fermentation

products of glucose and

fatty acids, C18-unsatd.,

esters with glycerol with

yeast Candida Bombicola,

partially hydrolysed

12.2 Persistence and Degradability

Biodegradation Product: anaerobic (61 d, ISO 11734): 100 % Readily

biodegradable Main component(s)

aerobic (28 d, OECD TG 301 F): 85 % Readily

biodegradable Main component(s)

BOD/COD Ratio Product No data available.

Components

	Sophorolipids: fermentation products of glucose and fatty acids, C18-unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed	No data available.
12.3	Bioaccumulative potential Product:	No data available.
12.4	Mobility in soil:	No data available.
12.5	Results of PBT and vPvB assessment:	No data available.
	Sophorolipids: fermentation products of glucose and fatty acids, C18- unsatd., esters with glycerol with yeast Candida Bombicola, partially hydrolysed	Non-classified vPvB substance Non-classified PBT substance
12.6	Other adverse effects:	Do not allow to enter soil, waterways or waste water canal.

SECTION 13: Disposal considerations

13.1	Waste treatment methods	
	General information:	No data available.
	Disposal methods:	In accordance with local authority regulations, take to special waste incineration plant.
	Contaminated packaging :	If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

SECTION 14: Transport information

14.1	VN number	Not regulated as a dangerous good
14.2	VN proper shipping name	Not regulated as a dangerous good
14.3	Transport hazard class(es)	Not regulated as a dangerous good
14.4	Packing group	Not regulated as a dangerous good
14.5	Environmental hazards	Not regulated as a dangerous good
14.6	Special precautions for user	Not applicable
14.7	Transport in bulk according to Annex II of Marpol and the IBC code	Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Not classified according to CLP regulation. Product comprises: <5% anionic surfactants

15.2 Chemical safety assessment:

No chemical safety assessment was carried out for this product

SECTION 16: Other information

Abbreviations and acronyms

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road; **ADN** – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; **AGW** – Occupational exposure limit; **ASTM** – American Society for Testing and Materials; **AwSV** - Ordinance on facilities for handling substances that are hazardous to water; **BSB** - Biochemical oxygen demand; c.c. – closed cup; **CAS** – Chemical abstract Services; **CESIO** – European committee of Organic Surfactants and their Intermediates; **CSB** - Chemical oxygen demand; **DMEL** – Derived minimum effect level; **DNEL** – Derived no effect level; **EbC50** - median concentration in terms of reduction of growth; **EC** - Effective concentration; **EINECS** – European Inventory of Existing Commercial Chemical Substances; **EN** - European norm; **ErC50** - median concentration in terms of reduction of growth rate; **GGVSEB** – German ordinance for road, rail and inland waterway transportation of dangerous good; **GGVSee** – German ordinance for sea transportation of dangerous goods; **GLP** – Good laboratory Practice; **GMO** – Genetic modified organism; **IATA** – International Air Transport Association; **ICAO** – International Civil Aviation Organization; **IMDG** – International Maritime Dangerous Goods; **ISO** – International Organization For Standardization; **LD/LC** - lethal dosis/concentration; **LOAEL** – Lowest observed adverse effect level.; **LOEL** – Lowest observed effect level.; **MFactor** - multiplying factor; **NOAEL** – No observed adverse effect level.; **NOEC** – No observed effect concentration; **NOEL** – No observed effect level; **o.c.** - open cup; **OECD** – Organization for Economic Cooperation and Development; **OEL** – Occupational Exposure Limit; **PBT** – Persistent, bioaccumulative, toxic; **PNEC** – Predicted no effect concentration.; **REACH** – REACH registration; **RID** – Convention concerning International Carriage by Rail; **SVHC** – Substances of Very High Concern; **TA** – Technical Instructions; **TRGS** – Technical Rules for Hazardous Substances; **vPvB** – very persistent, very bioaccumulative; **WGK** – Water Hazard Class

Key literature references and sources for data: No data available.

Training information: Comply with national laws regulating employee instruction.

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