

SAFETY DATA SHEET**KOFASIL Life****ADDCON**

KOFASIL Life contains homofermentative lacto bacteria

1. Identification of the substance / preparation and company / undertaking

Product name	KOFASIL Life
Chemical product name	Preparation of grow medium and homofermentative lacto bacteria
Synonyms	
Manufacturer/ supplier	ADDCON EUROPE GmbH Säurestr. 1, Areal E D-06749 Bitterfeld-Wolfen Germany
Emergency Telephone number	+49 (0) 3493 737 80 (This number is serviced during office hours only.)
e-mail-address of person responsible for this SDS	thomas.ohlmann@addcon.net
Recommended use	Additive to silage

2. Hazards identification

The preparation is not classified as dangerous according to directive 67/548/EEC and its amendments.

Classification	Not classified
Human health hazards	Based on the available data of this product no hazardous properties are known.
Environmental hazards	Based on the available data of this product no hazardous properties are known.
Physical / chemical hazards	Based on the available data of this product no hazardous properties are known.

3. Composition / information on ingredients**Substance / preparation :** preparation

Chemical name	CAS no.	%	EC- no. *	classification
grow medium See section 16 for the full text of the R-phrases declared above.		> 95		Not classified

* EC-No. means EINECS- or ELINCS-number.

4. First-aid measures**Effects and symptoms**

Inhalation	Over-exposure by inhalation may cause respiratory irritation (coughing).
Ingestion	There is no known acute effect after over-exposure to this product.
Skin contact	There is no known acute effect after over-exposure to this product.
Eye contact	Can cause eye irritation.
First-aid measures	
General	Move exposed person to fresh air.
Inhalation	If inhaled, remove to fresh air. Obtain medical attention if symptoms occur.
Ingestion	If swallowed, rinsed mouth with water (only if the person is conscious). Obtain medical attention if symptoms occur.
Skin contact	Rinse with plenty of running water. Remove contaminated clothes and shoes. Obtain medical attention if symptoms occur.
Eye contact	Rinse with plenty of running water. Obtain medical attention if symptoms occur.
First-aid facilities:	No special recommendations.

5. Fire-fighting measures**Extinguishing media**

Small fire suitable	Use dry chemical or CO ₂ .
Large fire suitable	Use water, foam or dry chemical powder-
Unusual fire / explosion hazards	Do not inhale explosion and combustion gases.
Hazardous thermal decomposition products	In case of fire, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide.
Special fire-fighting procedures	No special measures required.

5. Fire-fighting measures

Protection of fire-fighters Wear suitable protective clothing. Self-contained breathing apparatus.

6. Accidental release measures

Personal precautions Provide adequate ventilation.

Environmental precautions Do not allow to enter drains/surface water/ground-water.

Clean-up methods

Small spill and leak Take up mechanically, placing in appropriate containers for disposal.

Large spill and leak Take up mechanically. Avoid generation of dust. Treat the recovered material as prescribed in the section on waste disposal.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling Use with adequate ventilation.

Storage

Store in a dry, cool and well-ventilated area (store in the frost increase the shelf-life).
The product has been produced and packaging in accordance with strict quality practices.
Maintain this quality level by storing this product away from other chemicals.

Remarks

The product should be handled with the care usual when dealing with chemicals.

Packaging materials

Suitable Aluminium bags or polyethylene bags

Note: See section 10 for stability and reactivity.

8. Exposure controls / personal protection

Exposure limit values Does not contain substances above concentration limits fixing an occupational exposure limit.

Engineering measures

Use with adequate ventilation in closed rooms. See section 7. No additional measures necessary.

Hygiene measures

When using does not eat, drink or smoke. Wash hands after handling compounds and before eating, smoking and using the lavatory at the end of the day.

Personal protective equipment – Production scale

Respiratory system In the case of dust formation use wear dust protection mask.

Skin and body Working clothes

Eyes eye protection: not required

Hands Wear suitable gloves.

Recommended material(s) > 8 hours (breakthrough time): Nitril rubber, butyl rubber, neoprene, Viton, PVC. Replace damaged gloves.

Advice on personal protection is applicable for high exposure levels. Select proper personal protection based on a risk assessment of the actual situation.

9. Physical and chemical properties

Physical state Solid (granules or solid, hygroscopic)

Colour White to white-yellow

Odour Odourless

pH 6 - 7 (concentration 10%)

Boiling point 465 °C

Melting point > 210 °C (partially decomposition)

Flash point Not available.

Lower explosion limit 30 g/m³

Upper explosion limit Not available.

Auto-ignition temperature Not available.

Density (g/cm³) 0,62 g/cm³

Bulk density 0,62 kg/m³

Solubility in water soluble

Solubility Easy soluble in the following materials: cold water.
Partially soluble in the following materials: not available.

9. Physical and chemical properties

Molecular weight	Not available.
Minimum ignition energy	Not available.
Dust explosion class	Not available.
Remarks	More detailed information on the physical and chemical properties can be requested from the supplier.

10. Stability and reactivity

Stability	Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid	No known significant effects or critical hazards.
Materials to avoid	No known significant effects or critical hazards.
Hazardous decomposition products	In case of fire: see section 5.

11. Toxicological information

Potential acute health effects

Inhalation	Slightly hazardous in the case of contact.
Ingestion	Slightly hazardous in the case of contact.
Skin contact	Slightly hazardous in the case of contact.
Eye contact	Can cause eye irritation.

Acute toxicity	No known significant effects or critical hazards.
Primary irritation	No known significant effects or critical hazards.
Sensitization	No sensitizing effect admits.

Potential chronic health effects

Chronic effects	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.
Chronic toxicity	No specific data.
Carcinogenicity	No specific data.
Mutagenicity	No specific data.
Teratogenicity	No specific data.
Reproductive toxicity	No specific data.

Remarks	This material may produce dust. It can cause respiratory tract irritation. Breathing small amounts of this material during usual industrial handling is not likely to be harmful. Breathing large amounts may be harmful. Swallowing this material is not likely to be harmful. The toxicological properties of this substance have not been fully investigated.
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12. Ecological information

Environmental effects	Readily biodegradable. This product shows a low bioaccumulation potential.
Aquatic ecotoxicity	No specific data.
Persistence / degradability	No specific data.
Other adverse effects	No known significant effects or critical hazards.
AOX	The product does not contain organically bound halogens which could lead to an AOX (Absorbable Organically bound Halogens) value in waste water.
Mobility	For data on physical state and solubility see section 9.

13. Disposal considerations

Methods of disposal (waste of residues; contaminated packaging) Waste must be disposed of in accordance with national and local environmental regulations. Controlled biodegradation in waste water treatment is possible.

14. Transport information

International transport regulations

Regulatory information	UN - Number	Proper shipping name	class	PG*	Label	Additional information
ADR/RID Class	Not regulated.	-	-	-	-	-
ADNR Class	Not regulated	-	-	-	-	-
IMDG Class	Not regulated	-	-	-	-	-
IATA Class	Not regulated	-	-	-	-	-

PG* : Packing group

15. Regulatory information

EC-regulations

Risk phrases According to EU directives 67/548/EEC and 1999/45/EC this product does not require labelling.

Remarks In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. Other information

Full text of R phrases referred to in sections 2 and 3 – United Kingdom (UK)

Full text of classifications referred to in sections 2 and 3 – United Kingdom (UK)

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Internal code SDB_K-Life_E_0001

History

Date of printing 06.05.2009

Date of issue 06.05.2009

Version 1

Notice to reader

The information contained in the Safety Data Sheet is based on our data available on the date of publication. The information is intended to aid the user in controlling the handling risks; it is not to be construed as a warranty or specification of the product quality. The information may not be or may not altogether be applicable to combinations of the product with other substances or to particular applications.

The user is responsible for ensuring that appropriate precautions are taken and for satisfying them that the data are suitable and sufficient for the product's intended purpose. In case of any unclarity we advise consulting the supplier or an expert.

Training advice Handling of this substance or preparation is restricted to skilled personnel only.

Source of key data Literature data and/or investigation reports are available through the manufacturer.

Alterations compared to the previous version Alterations compared to the previous version are marked with a little (blue) triangle.