

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

silago® SL2

Version 2.2
Revision Date 04.05.2009
R40099 1/7 EN

Print Date 11.05.2009

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name: silago® SL2
Use: building industry
Supplier: silago GmbH
Sudetenstraße 3
D 82031 Gruenwald
Responsible Department: Sicherheit und Umwelt
Telephone: +49 (0)89 – 3815 6305
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2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Xi R41 Risk of serious damage to eyes.
R37 Irritating to respiratory system.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Mixture of substances listed below with nonhazardous additions.

Hazardous components

ethyl (S)-2-hydroxypropionate Concentration: $\geq 25,00\%$ - $< 50,00\%$
CAS-No.: 687-47-8 EC-No.: 211-694-1 Index-No.: 607-129-00-7
Classification: R10 Xi; R37, R41
Nota C

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice: Move out of dangerous area. Take off all contaminated clothing immediately. First aider needs to protect himself.
Inhalation: Move to fresh air. If symptoms persist, call a physician. In case of shortness of breath, give oxygen. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.
Skin contact: After contact with skin, wash immediately with plenty of soap and water. If symptoms persist, call a physician.
Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Protect unharmed eye. Consult an eye specialist immediately.

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Ingestion: Rinse the mouth and spit the fluids out. Immediately give large quantities of water to drink. Do NOT induce vomiting. Call a physician immediately.

Notes to physician

Symptoms: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. High concentration of vapors may cause irritation to eyes and respiratory system.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray, Dry powder, Alcohol-resistant foam, Carbon dioxide (CO₂)

Extinguishing media which shall not be used for safety reasons:

High volume water jet

Specific hazards during fire fighting:

Heating or fire can release toxic gas. Carbon dioxide (CO₂), Carbon monoxide, Under certain fire conditions, traces of other toxic products cannot be excluded.

Special protective equipment for fire-fighters:

In the event of fire, wear self-contained breathing apparatus. Complete suit protecting against chemicals

Additional advice:

Risk of closed containers bursting if strongly heated. Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Keep away unprotected persons. Ensure adequate ventilation.

Environmental precautions: Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Ventilate the area. Clean contaminated surface thoroughly. Treat recovered material as described in the section "Disposal considerations".

7. HANDLING AND STORAGE

Handling

Advice on safe handling: Ensure adequate ventilation. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Avoid formation of aerosol.

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Advice on protection against fire and explosion:

The product is flammable but not readily ignited. Keep away from heat and sources of ignition. Possible formation of ignitable mixtures in air if heated above flash point and/or if sprayed (atomized).

Storage

Requirements for storage areas and containers:

Keep in an area equipped with solvent resistant flooring. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep only in the original container.

Advice on common storage:

Incompatible with oxidizing agents. Keep away from food, drink and animal feeding stuffs.

Further information on storage conditions:

Keep away from heat. Keep away from direct sunlight. Protect against light.

German storage class:

10: Combustible liquids.

Other data:

Protect from frost, heat and sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

The product contains no relevant quantities of substances with workplace control parameters.

Personal protective equipment

Respiratory protection:

Use respirator with appropriate filter if vapours or aerosol are released. Required, if exposure limit is exceeded (e.g. OEL).
Combination filter: A-P2

Hand protection:

Wear suitable gloves.
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
As the product is a preparation of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.
Protective gloves should be replaced at first signs of wear.
The following materials are suitable:
butyl-rubber

Eye protection:

Tightly fitting safety goggles

Body Protection:

Solvent resistant protective clothing

Hygiene measures:

Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Do not breathe gas/fumes/vapor/spray. Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area.

Engineering measures

Refer to protective measures listed in sections 7 and 8.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: liquid
Color: yellowish cloudy
Odor: characteristic

Safety data

Boiling point/boiling range: 89 – 100° C
Flash point: > 65° C
Explosive properties: Product is not explosive.
Vapor pressure: no data available
Density: 1,084 g/cm³; 20 ° C
Water solubility: miscible

10. STABILITY AND REACTIVITY

Conditions to avoid: Direct sources of heat. Strong sunlight for prolonged periods.
Protect from frost.
Materials to avoid: Oxidizing agents
Hazardous decomposition products: Under fire conditions: Carbon dioxide (CO₂), Carbon monoxide
Hazardous reactions: Exothermic reaction with: Oxidizing agents Vapors may produce explosive mixtures with air at temperatures over the flame point.
General advice: No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Ingestion: ethyl (S)-2-hydroxypropionate: LD50 rat > 2.000 mg/kg OECD Test Guideline 401; ethyl (S)-2-hydroxypropionate: LD50 mouse 2.500 mg/kg
Inhalation: ethyl (S)-2-hydroxypropionate: LD50 rat 5,4 mg/l 4 h
Skin contact: May have irritant effects.
Eye contact: Irritating to eyes. Risk of serious damage to eyes.
Sensitization: No sensitizing effect known.
Further information: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Other dangerous properties cannot be excluded. Handle in accordance with good industrial hygiene and safety practice.

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12. ECOLOGICAL INFORMATION

Biodegradability: ethyl (S)-2-hydroxypropionate: 86 % 28 d; Readily biodegradable.

Bioaccumulation: ethyl (S)-2-hydroxypropionate: Bioaccumulation is not expected.

Toxicity to fish: ethyl (S)-2-hydroxypropionate: LC50 Brachydanio rerio 320 mg/l 96 h OECD Test Guideline 203

Toxicity to daphnia: ethyl (S)-2-hydroxypropionate: EC50 Daphnia magna 683 mg/l 48 h OECD Test Guideline 202;

Toxicity to algae: ethyl (S)-2-hydroxypropionate: IC50 Pseudokirchneriella subcapitata 2,200 mg/l 70 h OECD Test Guideline 201;

Further information on ecology

Additional ecological information: Ecological injuries are not known or expected under normal use.

13. DISPOSAL CONSIDERATIONS

Product: Disposal together with normal waste is not allowed. Can be land filled or incinerated, when in compliance with local regulations.

Packaging: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

European Waste Catalogue Number: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. TRANSPORT INFORMATION

ADR: Not dangerous goods
RID: Not dangerous goods
IMDG: Not dangerous goods

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15. REGULATORY INFORMATION

Labeling according to EC Directives

The product does not need to be labeled in accordance with EC directives or respective national laws.



R-phrase(s)	R37 R41	Irritating to respiratory system. Risk of serious damage to eyes.
S-phrase(s)	S23 S25 S26 S36/37/39	Do not breathe vapor/spray. Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection.

National legislation

WGK (DE):	WGK:1;	slightly water endangering; Self-classification according VwVwS of 17 May 1999, Annex 4
Major Accident Hazard Legislation:		Does not fall under the German StörfallV. -
Regulation:		Occupational restrictions: Take note of Dir 92/85/EEC on the safety and health of pregnant workers at work and of Dir 94/33/EC on the protection of young people at work.

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R10	Flammable.
R37	Irritating to respiratory system.
R41	Risk of serious damage to eyes.

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Further information

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

|| Indicates updated section.