

1. Identification of the Article:

1.1. Product identifier: **isofloc LM, isofloc eco, isofloc LF, isofloc L, isofloc LW, isofloc silencio, easyfiber, swissfloc, CelluBor SW, CelluBOR FR**

1.2. Relevant identified uses of the article
Thermal and acoustic insulation

1.3. Details of the suppliers of the safety information sheet:

Trade Name:	isofloc AG
Manufacturing plant:	Soorpark, 9606 Bütschwil
Contact:	Mr Michel Alder
Telephone:	+41 (0) 71 313 91 00

2. Hazard Identification:

2.1. Article: Cellulose Insulation

2.2. Label elements:
None
No label elements according to CLP regulation No. 1272/2008

3. Composition / Information on Ingredients:

3.1. Article: Safety information sheet is voluntary – there is no legal obligation a manufacturer has to declare more than the article itself.

3.2. „isofloc eco“ May contain traces of borate.

4 First Aid Measures:

4.1. Description of first aid measures: In case of health problems due to excessive exposure to product dust.

4.1.1. If excessive amounts of the product are inhaled:
Move the affected person to the fresh air, wash the face properly with water, rinse the mouth (or nose) with clear water, rest, do not smoke. If respiratory problems occur then seek medical assistance.

If dust from the product is in contact with the skin:
Generally no hazard.

Shake off the dust from clothing or vacuum, wash the skin with plenty of tepid water, if possible or with soap or other suitable detergent.

If dust from the product comes into contact with the eyes:
Rinse or flush with running clean tepid water.

If dust from the product is swallowed:
Rinse the mouth with water if any problems, seek medical help.

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| 4.1.2. | Other data: | No specific safety equipment for person providing first aid is required. |
| 4.2. | <u>Most important symptoms and effects, both acute and delayed:</u> | Not applicable. |
| 4.3. | <u>Indication of any immediate medical attention and special treatment needed:</u> | Not applicable. |
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| 5. | <u>Firefighting Measures:</u> | |
| 5.1. | <u>Extinguishing media:</u> | Use extinguishing means with respect to the environment, e.g. carbon dioxide, dry powder, foam or water extinguisher, water mist. |
| 5.2. | <u>Special hazards arising from the product:</u> | In case of fire, product may form organic coal products and carbon mono- and dioxide. |
| 5.3. | <u>Advice for firefighters:</u> | <p>Extinguishing advice: In an attic area avoid blasting an insulation deck with a strong hose stream, which may spread burning material throughout the attic. If insulation is found burning on an attic floor, attack the fire with a water spray.</p> <p>In case of fire, wear positive pressure self-contained breathing apparatus, use appropriate protection of respiratory system (insulating means), or whole-body protection. The product contains ingredients, which in case of fire should prolong its resistance to fire.</p> <p>Watch out for possible sources of fire, such as wood and paper. Do not allow the extinguishing water to enter the sewage system.</p> |
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| 6. | <u>Accidental Release Measures:</u> | |
| 6.1. | <u>Personal precautions, protective equipment and emergency procedures:</u> | <p>Minimize dust! Use personal protective means, follow the instructions of chapters 7 and 8, do not inhale the dust, avoid contact with skin and eyes.</p> <p>Avoid the generation of dust, for example by wetting the material.</p> |
| 6.2. | <u>Environmental precautions:</u> | <p>Prevent blown dispersal of the loose fibrous dust. Keep away from drainage. Take up by mechanical means.</p> |
| 6.3. | <u>Methods and material for containment and cleaning up:</u> | <p>Sweep up the spilled dust carefully or preferably remove using a vacuum cleaner with a suitable filter. Put this material into labelled containers and dispose - see point No 13.</p> |

If sweeping up, spray the material first; never use a blower or compressed air for cleaning.

6.4. Reference to other sections:

7, 8 and 13.

7. Handling and Storage:

7.1. Precautions for safe handling:

Minimize dust at work, minimize contact with skin and eyes, do not inhale the dust, at work use personal protective equipment listed in point No 8, wash your hands after handling.
Keep bags tightly closed and dry.
Take precautions against static discharge. Keep away from sources of ignition, do not smoke, eat or drink at the workplace.

7.2. Conditions for safe storage, including any incompatibilities:

Store in original, undamaged packaging, in dry, sheltered and clean warehousing, protect from humidity, store away from explosive and oxidizing substances, keep away from sources of ignition, do not smoke, do not directly expose to extreme climatic effects.

7.3. Specific end use(s):

The product is approved for thermal and acoustic insulation for closed and open cavities in building construction to be injected.

8. Exposure Controls / Personal Protection:

8.1. Control parameters:

8.1.1 Occupational exposure limits

TRGS 900 - Workplace limit values:
Dust limit value cellulose: 3 mg/m³ for alveolar fraction, 10 mg/m³ inhalable fraction.

8.2. Exposure controls:

8.2.1. Appropriate engineering controls:

Ventilate the system and avoid dust generation.
Relevant protective loops:
SLF 200: Local exhaust system
SLF 240: Dust workplaces

8.2.2. Individual protection measures, such as personal protective equipment:

Common hygienic precautions, do not eat, drink and smoke during work, wash the hands with warm water and soap after work, it is necessary to keep the protective equipment in working condition, damaged or dysfunctional PPE must be immediately replaced.

a/ Eye / face protection:

Protective dustproof glasses.

b/ Skin protection:
i/ hand protection:
ii/ other:

Protective gloves.
Closed clothing

c/ Respiratory protection: In case of dust accumulation, if ventilation is not sufficient. Respiratory protection mask - P2/P3 particle filter according to DIN 3181 is required. Use helmet with fan assistance (Air-Stream helmet / EN 149). Particle filter P2 up to max. 10-fold exceeding of the MAC value. Particle filter P3 up to max. 30 times the MAC value.

d/ Thermal hazards: Not applicable.

9. **Physical and Chemical Properties:**

9.1. Information on basic physical and chemical properties:

a/ Appearance: Loose, fibrous, predominantly grey

b/ Odour: Paper.

c/ Odour threshold: Not applicable.

d/ pH: Not specified.

e/ Melting point / freezing point: Not applicable.

f/ Initial boiling point and boiling range: Not applicable.

g/ Flash point: Above 400 °C.

h/ Evaporation rate: Not applicable.

i/ Flammability (solid, gas): B-s2,d0 / E according to DIN EN 13501-1

j/ Upper / lower flammability or explosive limits: at Ei = 9,0 kJ not explosive
at Ei = 34,5 kJ not explosive
Is not flammable at an electric spark up to an energy of 40 J.

Caution: When used in explosive environment it is necessary to prevent dust deposits caused by the handling of the product.

Ignition of settled dust $t^u_{\min} = 290 \text{ °C}$
Ignition of dust clouds $t^l_{\min} = 510 \text{ °C}$

k/ Vapour pressure: Not applicable.

l/ Vapour density: Not applicable.

m/ Relative density: 25-65 kg/m³ Depending on specific application.

n/ Solubility: Insoluble.

o/ Partition coefficient: n-octanol/water: Not applicable.

p/ Auto-ignition temperature: Not applicable.

q/ Decomposition temperature: See item 10.

r/ Viscosity: No information available.

s/ Explosive properties: No information available.

t/ Oxidizing properties: No information available.

10. **Stability and Reactivity:**

10.1. Reactivity: When stored according to item 7 and when used as intended, the product does not react with itself or its environment.

10.2. Chemical stability: When stored according to item 7 and when used as intended, the product is stable and spontaneous decomposition does not appear.

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| 10.3. | <u>Possibility of hazardous reactions:</u> | Product decomposes at temperatures higher than 200°C, releasing harmful gases. |
| 10.4. | <u>Conditions to avoid:</u> | See item 7. |
| 10.5. | <u>Incompatible materials:</u> | According to intended use, no incompatible materials. |
| 10.6. | <u>Hazardous decomposition products:</u> | None when used as intended. In case of exposition to high temperatures see 5.2. |

11. Toxicological Information:

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| 11.1. | <u>Information on toxicological effects:</u> | No toxicological findings for the product. For relevant dust information, see item 8. |
| a/ | Acute toxicity: | None. |
| b/ | Skin corrosion / irritation: | None. |
| c/ | Serious eye damage / irritation: | None. |
| d/ | Respiratory or skin sensitization: | None. |
| e/ | Germ cell mutagenicity: | Not established for this product. |
| f/ | Carcinogenicity: | Not established for this product. |
| g/ | Repeated-dose toxicity: | Not established for this product. |
| h/ | STOT - single exposure: | Not established for this product. |
| i/ | STOT - repeated exposure: | Not established for this product. |
| j/ | Aspiration hazard: | Not established for this product. |

In our experience and based on the information available to us, the product does not cause any adverse health effects when handled and used as intended.

12. Ecological Information:

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| 12.1. | <u>Toxicity:</u> | No information available. |
| 12.2. | <u>Persistence and degradability:</u> | No information available. |
| 12.3. | <u>Bioaccumulative potential:</u> | No information available. |
| 12.4. | <u>Mobility in soil:</u> | No information available. |
| 12.5. | <u>Results of PBT and vPvB assessment:</u> | No information available. |
| 12.6. | <u>Other adverse effects:</u> | No information available. |

13. Disposal Considerations:

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| 13.1. | <u>Waste treatment methods:</u> | Please comply with the national or regional authorities. |
| 13.2 | <u>Handling of waste</u> | After demolition / removal, the product can be reused, recycled, or incinerated for energy generation under certain conditions.
Waste code:
EWC 17 06 04: Insulation material with the exception of that which falls under 17 06 01 or 17 06 03.
EWC 17 09 04 (ak in Switzerland): Mixed construction waste and other contaminated construction waste. |

13.3. Handling of packaging Empty and clean sacks are taken back by a recycling company hired to do so by the manufacturer. Dirty packaging is to be disposed of by regional disposal companies according to the type of contamination. Empty PE packaging can be recycled.

14. Transport Information:

14.1. UN number: Not applicable.
14.2. UN proper shipping name: Not applicable.
14.3. Transport hazard class: Not applicable.
14.4. Packing group: Not applicable.
14.5. Environmental hazards: Not applicable.
14.6. Special precautions for users: Not applicable.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15. Regulatory Information:

15.1. Regulations for safety, health and environmental protection/ specific laws governing the substance or mixture
The product does not require a specific declaration according to rules and regulations on the European level. For the distribution or handling please comply with the national (regional) regulations or any other national measures that may be relevant.

15.2. Chemical safety assessment: Not tested.

16. Other Information:

Present safety information sheet is voluntarily produced and is based on Regulations (EC) No. 1907/2006 and 830/2015 (REACH).
H-sentences not applicable.
Stated data corresponds to the actual state of knowledge and experience.
It cannot be considered as a warranty of fitness and usability for any application.

Date of issue: 01.02.2021
Date of revision: 07.08.2023