

Safety data sheet

in accordance with EC regulation no. 1907/2006 (REACH)

Trade name: DÄMMSTATTS CI 040, Klima-tec-Flock, biocell,
DÄMMSTATTS CI Dämmschüttung,
isofloc F, isofloc L, isofloc LM, easyfiber

Creation date: 04.02.2013
Revised on: 31.07.2018 Replaces version of: 27.05.2015
Revision no.: 2.1



isofloc Dämmstatt GmbH

Markgrafendamm 16
10245 Berlin
Tel.: +49 (0)30 29394 - 0
Fax: +49 (0)30 29394 - 104
E-Mail: info@isofloc.de
www.isofloc.de

1. Designation of the product and the company

1.1. Product identifier

Trade name:

- **DÄMMSTATTS CI 040**
- **DÄMMSTATTS CI Dämmschüttung**
- **biocell**
- **Klima-tec-Flock**
- **easyfiber**
- **isofloc F**
- **isofloc L**
- **isofloc LM**

Other designations: Cellulose insulation material

1.2. Relevant identified uses of the product and uses that are inadvisable:

Cellulose insulating material for the thermal and acoustic insulation of hollow spaces in roofs, walls and ceilings, in dry mortarless construction, timber construction and also in conjunction with concrete or masonry constructions. The processing is carried out dry or with the addition of a small quantity of water. The mechanical processing may be carried out only by trained specialist companies. These applications do not pose a danger to people, animals or the environment if the protective measures suggested here are adhered to. Other applications are inadvisable, since they are not covered by this safety data sheet.

1.3. Manufacturer / supplier

Point of contact for technical information:

isofloc Dämmstatt GmbH
Markgrafendamm 16
D-10245 Berlin
Phone: +49 (0)30 29394 - 0
E-mail: info@isofloc.de

1.4. Emergency number

During office hours (Mon-Thu 8 am - 5 pm, Fri 8 am - 3 pm), Phone: +49 (0)30 29394 – 110

2. Possible hazards

2.1. Classification in accordance with regulation (EC) no. 1272/2008

According to CLP regulation criteria the product is not subject to compulsory classification.

2.2. Marking elements

Marking elements according to regulation (EC) no. 1272/2008

According to CLP regulation criteria the product is not subject to compulsory marking

Safety notes / P-phrases:

The following abbreviations appear as complete text in section 16:

P210 ; P232 ; P260 ; P273 ; P280 ; P285 ; P391

Further marking elements:

None

2.3. Other hazards

The ingredient boric acid is listed in the REACH candidate list of substances of very high concern (<http://echa.europa.eu/web/guest/candidate-list-table>).

Dust may be generated during the processing of the product. Dust can irritate the respiratory system and if repeatedly inhaled can increase the risk of a serious disease of the respiratory system.

The product is combustible and has been treated with a fire protection agent to improve the behaviour under fire. The risk of fire in case of contact with an open flame cannot be ruled out. Continuous heating up over 80 °C is to be avoided, because if heat accumulates the possibility of smouldering cannot be ruled out.

Due to the boric acid content the product is classified in Germany in Water Pollution Classification I and must not be allowed to get into surface waters.

Safety data sheet

in accordance with EC regulation no. 1907/2006 (REACH)

Trade name: DÄMMSTATTS CI 040, Klima-tec-Flock, biocell,
DÄMMSTATTS CI Dämmschüttung,
isofloc F, isofloc L, isofloc LM, easyfiber

Creation date: 04.02.2013
Revised on: 31.07.2018 Replaces version of: 27.05.2015
Revision no.: 2.1



isofloc Dämmstatt GmbH
Markgrafendamm 16
10245 Berlin
Tel.: +49 (0)30 29394 - 0
Fax: +49 (0)30 29394 - 104
E-Mail: info@isofloc.de
www.isofloc.de

3. Composition / details of constituents

3.1. Chemical characterisation

Cellulose fibres from newspaper, mineral salts (light metal salts or compounds, incl. aluminium hydroxide) and boric acid

3.2. Hazardous ingredients

Name of substance	Content		
Boric acid	< 5 %	CAS no.:	10043-35-3
		Index no.:	005-007-00-2
		EC no.:	233-139-2
		Classification:	Reproduction toxicity, Category 1B, H360FD
		SCL	C ≥ 5.5 %

3.3. Additional notes

The full wording of the listed hazard notes is to be taken from section 16.

The product does not contain any substances that meet the criteria for a classification as a PBT or vPvB substance.

4. First-aid measures

4.1. Description of the first-aid measures

No special personal protective equipment is required for first-aiders.

After inhalation:

Remove the source of dust and ensure a supply of fresh air or take the person into the fresh air; call a doctor if necessary.

After skin contact:

Wash off with plenty of water.

After eye contact:

Remove contact lenses if worn and rinse out with plenty of water with the eyelids open; do not rub the eyes dry; call an eye-doctor if necessary.

After swallowing:

Rinse mouth out with plenty of water; call a doctor if feeling unwell.

4.2. Most important acute and delayed symptoms and effects

High concentrations of dust can irritate the respiratory system and the eyes.

4.3. Notes on emergency medical aid or special treatment

Not required

5. Fire-fighting measures

5.1. Fire extinguishing agent

Suitable: extinguish as with paper/wood, adapt to the environment.

5.2. Particular hazards emanating from the product

The product is flammable. Do not smoke and keep away from open flames. In the case of fire, flue gases are generated as with paper.

5.3. Notes on fire fighting

Pay attention to possible fire beds as with wood and paper. Do not allow extinguishing water to get into the sewers.

Safety data sheet

in accordance with EC regulation no. 1907/2006 (REACH)

Trade name: DÄMMSTATTS CI 040, Klima-tec-Flock, biocell,
DÄMMSTATTS CI Dämmschüttung,
isofloc F, isofloc L, isofloc LM, easyfiber

Creation date: 04.02.2013
Revised on: 31.07.2018 Replaces version of: 27.05.2015
Revision no.: 2.1



isofloc Dämmstatt GmbH

Markgrafendamm 16
10245 Berlin
Tel.: +49 (0)30 29394 - 0
Fax: +49 (0)30 29394 - 104
E-Mail: info@isofloc.de
www.isofloc.de

6. Measures in case of unintentional release

6.1. Personal precautionary measures, protective equipment and methods to be applied in emergencies

Avoid the generation of dust. Do not inhale dust. Avoid contact with the skin and eyes. Wear protective clothing and, if necessary, respiratory protection as described in section 8.

6.2. Environmental protection measures

Remove from the environment and take for disposal, preferably in sealable containers. Do not allow the product to get into sewers, surface water or groundwater.

6.3. Methods and material for retention and cleaning

Clean up spilt material in a dry condition. Dry material that is free from contaminants can be used again. Avoid the generation of dust; it is preferable to use industrial vacuum cleaners/dedusters for cleaning. Do not use blowers or compressed air.

6.4. Reference to other sections

Observe the preventive measures listed in section 8 and section 9.

7. Handling and storage

7.1. Protective measures for safe handling

Keep the generation and spread of dust as low as possible by means of suitable hygienic measures. Do not eat, drink or smoke in places where work is being performed. Avoid open flames. After work and before each break, wash your hands thoroughly and take off dirty clothing.

Wear personal protective equipment for injection: Particle filters P 2 and P 3; wear a helmet with fan assistance (airstream helmet according to EN 149) safety glasses, closed work clothes and gloves.

Keep away from children.

The product installed into hollow spaces is to be sealed airtight. In case of product lying openly, the surface can be moistened with a small quantity of water to prevent the generation of dust.

7.2. Conditions for safe storage, taking into account incompatibilities

Specifications for the storage conditions

Store dry. Avoid the entry of water and moisture. Observe the manufacturer's notes. If water enters the product it will become unusable.

Storage class: None

7.3. Specific end applications

Industry and sector-specific guidelines

The mixture is approved for thermal insulation for closed and open compartments in building construction, to be installed pneumatically or manually, dry or with the addition of a small quantity of water.

8. Limitation and monitoring of exposure / personal protective equipment

8.1. Parameters to be monitored

8.1.1. Limit values for exposure at the place of work and/or biological limit values; Occupational Exposure Limit values (OEL) Germany

Dust

Specification: TRGS 900 - Occupational Exposure Limit values (as of February 2014)

Value: General dust limit value - alveolar fraction
1.25 mg/m³

Safety data sheet

in accordance with EC regulation no. 1907/2006 (REACH)



isofloc Dämmstätt GmbH

Markgrafendamm 16
10245 Berlin
Tel.: +49 (0)30 29394 - 0
Fax: +49 (0)30 29394 - 104
E-Mail: info@isofloc.de
www.isofloc.de

Trade name: DÄMMSTATTs CI 040, Klima-tec-Flock, biocell,
DÄMMSTATTs CI Dämmschüttung,
isofloc F, isofloc L, isofloc LM, easyfiber

Creation date: 04.02.2013
Revised on: 31.07.2018 Replaces version of: 27.05.2015
Revision no.: 2.1

Peak limit: Excess factor: 2
Duration 15 min, average value; 4 times per shift; interval 1 h
Category II - resorptive substance

Value: General dust limit value - inhalable fraction
10 mg/m³

Peak limit: Excess factor: 2
Duration 15 min, average value; 4 times per shift; interval 1 h
Category II - resorptive substance

Source: Reason for the general dust limit value in TRGS 900, (2014/2001):
<http://www.baua.de/de/Themen-von-A-Z/Gefahrstoffe/TRGS/pdf/900/900-allgemeiner-staubgrenzwert.pdf>

Boric acid **EC no. 233-139-2**

Specification: TRGS 900 - Occupational Exposure Limit values (as of January 2006)

Value: 0.5 mg/m³

Peak limit: Excess factor: 2
Duration 15 min, average value; 4 times per shift; interval 1 h
Category I - substances for which the local effect determines the limit value or substances that sensitise the respiratory system

Teratogenic: A risk of impairment of fertility need not be feared if the OEL values are adhered to.

Remark: The OEL values also serve to protect against the impairment of fertility

Source: Reason for boric acid and sodium borates in TRGS 900, Sept. 2001:
<http://www.baua.de/de/Themen-von-A-Z/Gefahrstoffe/TRGS/pdf/900/900-borsaeure-und-natriumborate.pdf>

8.1.2. DNEL and PNEC values
Not relevant

8.1.3. Control banding (e.g. ILO, EMKG)

Relevant parameters / classification

Not classified

Relevant control guidance sheets

Control guidance sheets SLF 200: local extraction

SLF 240: dusty workplaces

www.baua.de/de/Themen-von-A-Z/Gefahrstoffe/EMKG/Schutzleitfaeden.html

8.2. Limitation and monitoring of exposure

8.2.1. Suitable technical control devices

Technical measures and the use of suitable working procedures, for example vented injection techniques, take precedence over the use of personal protective equipment.

Suitable evaluation methods for checking the effectiveness of the protective measures taken include metrological and non-metrological methods of determination, as are described for Germany in the Technical Rules for Hazardous Substances (TRGS) 402:

<http://www.baua.de/de/Themen-von-A-Z/Gefahrstoffe/TRGS/pdf/TRGS-402.pdf>

8.2.2. Individual preventive measures - personal protective equipment

Eye / face protection

Safety glasses are useful if there are high levels of dust.

Skin protection

Gloves

Protection of the hands against mechanical stress and dirt can be useful. Glove material: No particular specifications.

Safety data sheet

in accordance with EC regulation no. 1907/2006 (REACH)



Trade name: DÄMMSTATTS CI 040, Klima-tec-Flock, biocell,
DÄMMSTATTS CI Dämmschüttung,
isofloc F, isofloc L, isofloc LM, easyfiber

isofloc Dämmstatt GmbH

Markgrafendamm 16
10245 Berlin
Tel.: +49 (0)30 29394 - 0
Fax: +49 (0)30 29394 - 104
E-Mail: info@isofloc.de
www.isofloc.de

Creation date: 04.02.2013
Revised on: 31.07.2018 Replaces version of: 27.05.2015
Revision no.: 2.1

Other skin protection

Wear closed clothing.

Respiratory protection

Respiratory protection is necessary if the Occupational Exposure Limit values are exceeded despite local extraction. For Germany the rules for the use of respirators as well as the wearing time limit in accordance with the Employer's Liability Insurance Association rule (BGR) 190 are to be observed.

Suitable: particle filter (white) according to DIN 3181; particle filter P 2 and P 3; wear a helmet with fan assistance (air-stream helmet/EN 149).

Protection against heat / cold

No particular specifications

8.2.3. Limitation and monitoring of environmental exposure

The product is to be used only for its intended purpose of use. Handle material residues and contaminants as described in paragraphs 6 and 7.

9. Physical and chemical properties

9.1. Details of the basic physical and chemical properties

Appearance

Physical condition: Firm, loose, fibrous
Colour: Predominantly grey

Odour: Paper

Odour threshold: Individual

pH value: Not specified

Melting point/freezing point: Not applicable

Initial boiling point and boiling range: Not applicable

Flash point: 5 min at 200 °C; short period at 90 °C; continuous load 80 °C

Evaporation rate: No information available

Flammability (firm, gaseous): Normally flammable, combustible (Euro classes B-s2, d0/E)

Upper/lower flammability or explosion limits: No information available

Vapour pressure: Not relevant

Vapour density: Not relevant

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

Solubilities: Insoluble

Distribution coefficient: No information available

n-octanol/water: No information available

Auto-ignition temperature: approx. 280 °C

Decomposition temperature: In case of fire

Viscosity: No information available

Explosive properties: No information available

Oxidising properties: No information available

9.2. Other details

Further physical/chemical data for the product have not been determined.

Safety data sheet

in accordance with EC regulation no. 1907/2006 (REACH)

Trade name: DÄMMSTATTS CI 040, Klima-tec-Flock, biocell,
DÄMMSTATTS CI Dämmschüttung,
isofloc F, isofloc L, isofloc LM, easyfiber

Creation date: 04.02.2013
Revised on: 31.07.2018 Replaces version of: 27.05.2015
Revision no.: 2.1



isofloc Dämmstatt GmbH

Markgrafendamm 16
10245 Berlin
Tel.: +49 (0)30 29394 - 0
Fax: +49 (0)30 29394 - 104
E-Mail: info@isofloc.de
www.isofloc.de

10. Stability and reactivity

10.1. Reactivity

Under normal conditions the product does not react with itself or with its environment.

10.2. Chemical stability

Stable

10.3. Possibility of dangerous reactions

There are no dangerous reactions if used as intended.

10.4. Conditions to be avoided

The product should not become wet, since it can then no longer be used as thermal insulation.

10.5. Incompatible materials

Wetness: the product loses its property as a thermal insulation material.

10.6. Hazardous decomposition products

None known

11. Toxicological details

11.1. Details regarding toxicological effects

No toxicological findings for the product.

Newsprint no data

Aluminium hydroxide EC no. 244-492-7

Boric acid EC no. 233-139-2

Registration dossiers are available in accordance with the regulation (EC) no. 1907/2006 (REACH) with a complete data record.

<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

The following classification-relevant results arose from the data:

Reproduction toxicity of boric acid

Fertility-damaging effects and developmental toxicity following oral application in animal experiments.

Supplementary information

Irritation of the respiratory tract and the eyes have been described in cases of inhalation of boric acid, boroxide and sodium tetraborates at the workplace.

11.2. Symptoms and effects (delayed and chronic) with specifications of the exposure routes

The occupational exposure limit value for boric acid in Germany is based on the irritation symptoms in case of inhalation and takes into account the possible developmental toxicity aspects. A risk of developmental toxicity or damage to fertility need not be feared if the OEL values are adhered to.

<http://www.baua.de/de/Themen-von-A-Z/Gefahrstoffe/TRGS/pdf/900/900-borsaeure-und-natriumborate.pdf>

12. Environmentally-related details

12.1. Toxicity

The registration dossiers for boric acid and aluminium hydroxide do not identify any classification-relevant environmental toxicity.

12.2. Persistence and degradability

Not applicable

12.3. Bioaccumulation potential

No information available

Safety data sheet

in accordance with EC regulation no. 1907/2006 (REACH)

Trade name: DÄMMSTATTs CI 040, Klima-tec-Flock, biocell,
DÄMMSTATTs CI Dämmschüttung,
isofloc F, isofloc L, isofloc LM, easyfiber

Creation date: 04.02.2013
Revised on: 31.07.2018 Replaces version of: 27.05.2015
Revision no.: 2.1



isofloc Dämmstatt GmbH

Markgrafendamm 16
10245 Berlin
Tel.: +49 (0)30 29394 - 0
Fax: +49 (0)30 29394 - 104
E-Mail: info@isofloc.de
www.isofloc.de

12.4. Mobility in the soil

No information available

12.5. Result of the PBT and vPvB evaluation

None of the ingredients are assessed as 'Persistent, Bioaccumulative and Toxic (PBT)' or 'very Persistent and very Bioaccumulative (vPvB)' according to annex XIII of the REACH regulation.

12.6. Other harmful effects

No information available

13. Notes regarding disposal

13.1. Handling of waste

After demolition the product can be reused, provided it is dry and not contaminated.
The manufacturer offers to take back correctly sorted material (free to production plant) by arrangement.
Waste disposal takes place by arrangement with regional disposal companies.

13.2. Handling of the packaging

Empty and clean sacks are taken back free of charge by a recycling company (Interseroh) hired to do so by the manufacturer.
Dirty packaging is to be disposed of by regional disposal companies according to the type of contamination.

13.3. Waste code according to the European Waste Catalogue (EWC)

170604

13.4. Special precautionary measures

Boric acid must not get into the sewer.

13.5. Relevant EU or other regulations

None

14. Specifications for transport

14.1. UN number:

Omitted

14.2. Normal UN dispatch designation

ADR/RID Omitted

IMDG-Code / ICAO-TI / IATA-DGR Omitted

14.3. Transport hazard classes

Omitted

14.4. Packaging group

Omitted

14.5. Environmental hazards

Marking of environmentally hazardous materials

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR: yes / no

Marine Pollutant: yes / no

14.6. Special precautionary notes for the user

Omitted

14.7. Bulk material transport in accordance with Appendix II of the MARPOL convention 73/78 and in accordance with IBC code

Contamination category (X, Y or Z) Omitted

Ship type (1, 2 or 3) Omitted

Safety data sheet

in accordance with EC regulation no. 1907/2006 (REACH)

Trade name: DÄMMSTATTs CI 040, Klima-tec-Flock, biocell,
DÄMMSTATTs CI Dämmschüttung,
isofloc F, isofloc L, isofloc LM, easyfiber

Creation date: 04.02.2013
Revised on: 31.07.2018 Replaces version of: 27.05.2015
Revision no.: 2.1



isofloc Dämmstatt GmbH

Markgrafendamm 16
10245 Berlin
Tel.: +49 (0)30 29394 - 0
Fax: +49 (0)30 29394 - 104
E-Mail: info@isofloc.de
www.isofloc.de

15. Legal regulations

Regulations on safety, health and environmental protection/specific legislation for the substance or the mixture

15.1. EU regulations

Regulation (EC) no. 2037/2000 (Substances that deplete the ozone layer):

Not relevant

Regulation (EC) no. 850/2004 (Persistent organic pollutants):

Not relevant

Regulation (EC) no. 689/2008 (export and import of dangerous chemicals):

Not relevant

Regulation (EC) no. 648/2004 (Detergents):

Not relevant

Restrictions in accordance with title VIII of the regulation (EC) 1907/2006:

None

15.2. National regulations

Water Hazard Class

For boric acid: WHC 1; weakly water-polluting

Solvent regulation (31st BImSchV)

Not applicable

Hazardous incident regulation (12th BImSchV)

Not applicable

Technical Instructions on Air Quality Control (TA-Luft)

Not applicable

Further relevant regulations

None

15.3. Material safety evaluation

No material safety evaluation is available.

16. Other details

16.1. Changes since the last version

Information according to REACH, Article 33
in accordance with EU regulation no. 1272/2008

16.2. Wording of the hazard notes (H-phrases) and safety notes (P-phrases) in accordance with regulation (EC) no. 1272/2008

H360FD	Can impair fertility. Can damage a child in the womb.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P232	Protect against moisture.
P260	Do not inhale dust.
P273	Avoid release into the environment.
P280	Wear protective clothing/eye protection.
P285	Wear respiratory protection in the case of insufficient ventilation.
P391	Clean up spilt quantities.

Abbreviations:

SLF	Control guidance sheets
TRGS	Technical rules for Hazardous Substances

Safety data sheet

in accordance with EC regulation no. 1907/2006 (REACH)

Trade name: DÄMMSTATTs CI 040, Klima-tec-Flock, biocell,
DÄMMSTATTs CI Dämmschüttung,
isofloc F, isofloc L, isofloc LM, easyfiber

Creation date: 04.02.2013
Revised on: 31.07.2018 Replaces version of: 27.05.2015
Revision no.: 2.1



isofloc Dämmstatt GmbH

Markgrafendamm 16
10245 Berlin
Tel.: +49 (0)30 29394 - 0
Fax: +49 (0)30 29394 - 104
E-Mail: info@isofloc.de
www.isofloc.de

Bibliography and data sources

Safety data sheet in accordance with regulation (EC) no. 1907/2006 boric acid granulates (11/12/2010)

Safety data sheet in accordance with regulation (EC) no. 1907/2006 aluminium hydroxide (13/2/2009).

CLP regulation (EC) no. 1272/2008 of 16/12/2008, Appendix IV, Part 1 and Part 2

Training for employees

In co-operation with the responsible Employer's Liability Insurance Association ETEM and the safety officer of the company.

Further information

The information is based on the present level of our knowledge, but does not represent any assurance of product properties and does not establish any legal relationship.