SAFETY DATA SHEET

BEKAERT Steelfibres - loose and glued steelfibres


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

1.1 Product identifier:

Product name: BEKAERT Steelfibres - loose and glued steelfibres
Synonyms: GH 99/99; Lx 99/9.9; Wiremix Wxx
Registration number REACH: Not applicable (article)
Product type REACH: Article

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

1.2.1 Relevant identified uses
Construction

1.2.2 Uses advised against
No uses advised against known

1.3 Details of the supplier of the safety data sheet:

Supplier of the safety data sheet
NV Bekaert SA
Bekaertstraat 2
B-8550 Zwevegem
Tel: +32 56 76 61 11
Fax: +32 56 76 77 93
info@bekaert.com

Manufacturer of the product
NV Bekaert SA
Verzetslaan 3
B-8552 Moen
infobuilding@bekaert.com

1.4 Emergency telephone number:

24h/24h:
+32 56 46 10 00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008
Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC
Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC

2.2 Label elements:

Labelling according to Regulation EC No 1272/2008 (CLP)
Labelling does not apply to articles

Labelling does not apply to articles

2.3 Other hazards:

CLP
No other hazards known

DSD/DPD
No other hazards known
SECTION 3: Composition/information on ingredients

3.1 Substances:
This article does not contain any notifiable substances

3.2 Mixtures:
Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:
If you feel unwell, seek medical advice.

After inhalation:
Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:
Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:
Rinse with water. Take victim to an ophthalmologist if irritation persists.

After ingestion:
Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed:

4.2.1 Acute symptoms
After inhalation:
No effects known.

After skin contact:
No effects known.

After eye contact:
No effects known.

After ingestion:
No effects known.

4.2.2 Delayed symptoms
No effects known.

4.3 Indication of any immediate medical attention and special treatment needed:
If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:
Adapt extinguishing media to the environment.

5.1.2 Unsuitable extinguishing media:
No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture:
On burning: formation of small quantities of carbon monoxide - carbon dioxide, sulphur oxides and formation of metallic fumes.

5.3 Advice for firefighters:

5.3.1 Instructions:
No specific fire-fighting instructions required.

5.3.2 Special protective equipment for fire-fighters:

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

No naked flames.

6.1.1 Protective equipment for non-emergency personnel
See heading 8.2

6.1.2 Protective equipment for emergency responders
Gloves. Protective clothing.
SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling:
Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:
Storage temperature: 0 - 60 °C. Store in a dry area. Meet the legal requirements.

7.2.2 Keep away from:
Heat sources, oxidizing agents, (strong) acids.

7.2.3 Suitable packaging material:
No data available

7.2.4 Non suitable packaging material:
No data available

7.3 Specific end use(s):
If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure
a) Occupational exposure limit values
If limit values are applicable and available these will be listed below.
b) National biological limit values
If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

<table>
<thead>
<tr>
<th>Product name</th>
<th>Test</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.1.3 Applicable limit values when using the substance or mixture as intended
If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values
If applicable and available it will be listed below.

8.1.5 Control banding
If applicable and available it will be listed below.

8.2 Exposure controls:
The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls
Avoid raising dust. Keep away from naked flames/heat.

8.2.2 Individual protection measures, such as personal protective equipment
Observe normal hygiene standards. Do not eat, drink or smoke during work.
a) Respiratory protection:
Respiratory protection not required in normal conditions. Dust production: dust mask with filter type P1.
b) Hand protection:
Gloves.
c) Eye protection:
Safety glasses. In case of dust production: protective goggles.
d) Skin protection:
Protective clothing.
8.2.3 Environmental exposure controls:
See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Physical form</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Metal</td>
</tr>
<tr>
<td></td>
<td>Fibres</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Colour</td>
<td>Grey</td>
</tr>
<tr>
<td>Particle size</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability</td>
<td>No data available on direct fire hazard</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility</td>
<td>water ; &lt; 0.1 g/100 ml</td>
</tr>
<tr>
<td>Relative density</td>
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<tr>
<td>Decomposition temperature</td>
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<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No chemical group associated with explosive properties</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No chemical group associated with oxidising properties</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Physical hazards
No data available

9.2 Other information:
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity:
No data available.

10.2 Chemical stability:
No data available.

10.3 Possibility of hazardous reactions:
No data available.

10.4 Conditions to avoid:
Avoid raising dust. Keep away from naked flames/heat.

10.5 Incompatible materials:
Oxidizing agents, (strong) acids.

10.6 Hazardous decomposition products:
On burning: formation of small quantities of carbon monoxide - carbon dioxide, sulphur oxides and formation of metallic fumes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results
Acute toxicity

BEKAERT Steelfibres - loose and glued steelfibres
No (test)data available

Conclusion
Not classified for acute toxicity

Corrosion/irritation

BEKAERT Steelfibres - loose and glued steelfibres
No (test)data available

Conclusion
Not classified as irritating to the skin
Not classified as irritating to the eyes
Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

BEKAERT Steelfibres - loose and glued steelfibres
No (test)data available

Conclusion
Not classified for subchronic toxicity

Mutagenicity (in vitro)

BEKAERT Steelfibres - loose and glued steelfibres
No (test)data available

Mutagenicity (in vivo)

BEKAERT Steelfibres - loose and glued steelfibres
No (test)data available

Carcinogenicity

BEKAERT Steelfibres - loose and glued steelfibres
No (test)data available

Reproductive toxicity

BEKAERT Steelfibres - loose and glued steelfibres
No (test)data available

Conclusion CMR
Not classified for carcinogenicity
Not classified for mutagenic or genotoxic toxicity
Not classified for reprotoxic or developmental toxicity

Toxicity other effects

BEKAERT Steelfibres - loose and glued steelfibres
No (test)data available

Chronic effects from short and long-term exposure

BEKAERT Steelfibres - loose and glued steelfibres
No effects known.

11.1.2 Other information

BEKAERT Steelfibres - loose and glued steelfibres
No (test)data available

SECTION 12: Ecological information
12.1 Toxicity:

BEKAERT Steelfibres - loose and glued steelfibres
No (test)data available

Conclusion
No data available on ecotoxicity

12.2 Persistence and degradability:

Biodegradability: not applicable

12.3 Bioaccumulative potential:

BEKAERT Steelfibres - loose and glued steelfibres

<table>
<thead>
<tr>
<th>Log Kow</th>
<th>Method</th>
<th>Value</th>
<th>Temperature</th>
<th>Value determination</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Conclusion
No bioaccumulation data available

12.4 Mobility in soil:

No data available

12.5 Results of PBT and vPvB assessment:

The criteria of PBT and vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006 do not apply to inorganic substances.

12.6 Other adverse effects:

BEKAERT Steelfibres - loose and glued steelfibres

Global warming potential (GWP)
None of the known components is included in the list of substances which may contribute to the greenhouse effect (Regulation (EC) No 842/2006)

Ozone-depleting potential (ODP)
Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste
17 04 05 (iron and steel). Can be considered as non hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods
Recycle/reuse. Remove waste in accordance with local and/or national regulations.

13.1.3 Packaging/Container
No data available.

SECTION 14: Transport information

Road (ADR)

14.1 UN number: Not subject

14.2 UN proper shipping name: 

14.3 Transport hazard class(es):

<table>
<thead>
<tr>
<th>Hazard identification number</th>
<th>Class</th>
<th>Classification code</th>
</tr>
</thead>
</table>

14.4 Packing group:

<table>
<thead>
<tr>
<th>Packing group</th>
<th>Labels</th>
</tr>
</thead>
</table>

14.5 Environmental hazards:

| Environmentally hazardous substance mark | No |

14.6 Special precautions for user:

<table>
<thead>
<tr>
<th>Special provisions</th>
</tr>
</thead>
</table>
# BEKAERT Steelfibres - loose and glued steelfibres

## Rail (RID)

14.1 UN number: Not subject

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

<table>
<thead>
<tr>
<th>Class</th>
<th>Classification code</th>
</tr>
</thead>
</table>

14.4 Packing group:

<table>
<thead>
<tr>
<th>Packing group</th>
<th>Labels</th>
</tr>
</thead>
</table>

14.5 Environmental hazards:

| Environmentally hazardous substance mark | No |

14.6 Special precautions for user:

<table>
<thead>
<tr>
<th>Special provisions</th>
<th>Limited quantities</th>
</tr>
</thead>
</table>

## Inland waterways (ADN)

14.1 UN number: Not subject

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

<table>
<thead>
<tr>
<th>Class</th>
</tr>
</thead>
</table>

14.4 Packing group:

<table>
<thead>
<tr>
<th>Packing group</th>
<th>Labels</th>
</tr>
</thead>
</table>

14.5 Environmental hazards:

| Environmentally hazardous substance mark | No |

14.6 Special precautions for user:

<table>
<thead>
<tr>
<th>Special provisions</th>
<th>Limited quantities</th>
</tr>
</thead>
</table>

## Sea (IMDG)

14.1 UN number: Not subject

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

<table>
<thead>
<tr>
<th>Class</th>
</tr>
</thead>
</table>

14.4 Packing group:

<table>
<thead>
<tr>
<th>Packing group</th>
<th>Labels</th>
</tr>
</thead>
</table>

14.5 Environmental hazards:

| Marine pollutant | Environmentally hazardous substance mark | No |

14.6 Special precautions for user:

<table>
<thead>
<tr>
<th>Special provisions</th>
<th>Limited quantities</th>
</tr>
</thead>
</table>

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Annex II of MARPOL 73/78

## Air (ICAO-TI/IATA-DGR)

14.1 UN number: Not subject

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

<table>
<thead>
<tr>
<th>Class</th>
</tr>
</thead>
</table>

14.4 Packing group:

<table>
<thead>
<tr>
<th>Packing group</th>
<th>Labels</th>
</tr>
</thead>
</table>

14.5 Environmental hazards:
BEKAERT Steelfibres - loose and glued steelfibres

14.6 Special precautions for user:

| Environmentally hazardous substance mark | no |

Special provisions

Passenger and cargo transport: limited quantities: maximum net quantity per packaging

SECTION 15: Regulatory information

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

European legislation:

15.2 Chemical safety assessment:

No chemical safety assessment is required.

SECTION 16: Other information

Full text of any R-phrases referred to under headings 2 and 3:

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances
DSD  Dangerous Substance Directive
DPD  Dangerous Preparation Directive
CLP (EU-GHS)  Classification, labelling and packaging (Globally Harmonised System in Europe)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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