

## Material safety data sheet



Danish Fishmeal for feeding purposes

- 1) Substance identification: Danish Fishmeal  
LT-Supreme, Special A, FF-Classic, Herring Trimming meal
- FF SKAGEN (Fiskernes Fiskeindustri a.m.b.a.)  
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- 2) Composition: Fish protein concentrate with abt. 10% moisture and abt. 10-12% fat.
- 3) Hazards identification: According to the specific data available, classification according categories of danger as specified in Directive 67/548/EEC and laid down in the legislation of the country concerned, is not required.
- 4) First aid:
- In case of excessive contact with Skin:***  
Wash off with plenty of water, Remove contaminated clothing. Prolonged contact with the meal may cause allergic skin reaction to some people.
- In case of excessive inhalation:***  
Fresh air, may obstruct respiration
- In case of excessive eye contact:***  
Rinse out with plenty of water with the eyelid held wide open.
- In case of excessive swallowing:***  
Consult doctor if feeling unwell. If large amounts are swallowed, protein poisoning may occur.
- 5) Fire fighting measures:
- Suitable extinguishing equipment:***  
Powder, foam, spray water
- Special risks:***  
Development of hazardous combustion gases or vapours possible in the unlikely event of fire. The following may develop in the event of fire; nitrogen oxides
- Special protective equipment for fire fighting:***  
Do not stay in dangerous zone without self-contained breathing tools.

6) Accidental release measures:

**Procedures for cleaning / absorption:**

Take up dry. Clean up effected area.

7) Handling & Storage:

To be stored in a dry cool and dark place, preferably below 20 degrees centigrade.

Incorporate standard precautions against dust explosions into bulk handling equipment.

Avoid contact with potential sources of ignition.

If stored under inexpedient conditions, self-ignition may happen.

8) Exposure controls /

Personal protection:

**Personal protective equipment:**

Respiratory protection required when dusts are generated.

*Eye protection:* Not required

*Hand protection:* Not required

9) Physical & Chemical properties:

Form: Meal / powder  
Colour: yellow/brown  
Odour: Fishy/slightly of ammonia

PH value at 100 g/l H <sub>2</sub> O	6-7
Melting temperature	n/a
Boling temperature	n/a
Flash point	n/a
Vapour pressure	n/a
Density	500 – 650 kg/m <sup>3</sup>
Solubility in water	10-35% of the product
Minimum ignition temperature (fine ..... coarse particle size)	440/530 <sup>0</sup> C BAM
Minimum ignition energy (fine ..... coarse particle size)	100/1000 MJ
Lower explosion limit (fine ..... coarse particle size)	30/60/200/500 g/m <sup>3</sup>
Glowing temperature (5 mm)	> 390 <sup>0</sup> C
Maximum explosion pressure	6,7 Bar

10) Stability & reactivity:

**Conditions to be avoided:**

Direct sun (rancidity)

Water in the meal.

**Substances to be avoided:**

Oxidising agent, Chlorine

If stored under the recommended conditions, the product is stable for more than one year.

- 11) Toxicological information: No toxic effects are to be expected when the product is handled appropriately.
- 12) Ecological information: **Degradability:** Easily eliminable.  
No ecological problems are to be expected when the products are handled used appropriate care and attention.
- 13) Disposal considerations: **Product:**  
There are no uniform EU regulations for the disposal of chemicals or residues. The disposal is regulated in the EU Member countries through corresponding rules and regulations. We recommend that you contact either the Proper authorities in charge or approved waste disposal Companies which will advise you of how to dispose of Special waste.  
**Packaging:**  
Disposal in compliance with the official regulations.  
Handle  
Contaminated packaging in the same way as the substance Itself. If not officially specified differently, non-contaminated packaging can be treated as household waste.
- 14) Transport information: UN 2216 Litra c concerning shipment of fishmeal in bulk.
- 15) Regulatory: Labelling in accordance with EU directives

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Skagen, March 1<sup>st</sup>, 2012  
TH/gm