



# Material Safety Data Sheet (MSDS)

## South Antarctic Krill Meal *Euphasia superba*

Prepared by Krill Canada Corporation  
Version August 2019



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**SECTION 1- PRODUCT NAME AND COMPANY IDENTIFICATION**

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Product Name. South Antarctic Krill Meal (*Euphausia superba*)  
Synonyms Dried Krill Meal  
Chemical family Feed  
Use Feed ingredient  
Supplier Krill Canada Corporation  
20251 44A Ave.  
Langley, BC  
V3A 6N2

**Information and Emergency**

Phone: 1.604.533.0038  
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gordon@krill.ca

Manufacturer Krill Canada Corporation  
4588 76<sup>th</sup> St.  
Surrey BC

**Information and Emergency**

Phone: 1.604.710.0784  
Fax: 1.604.533.1031  
[sales@krill.ca](mailto:sales@krill.ca)

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**SECTION 2- COMPOSITION – INFORMATION ON INGREDIENTS**

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OTHER 6-ethoxy-1,2 dihydro-2,2,4 trimethyl quinoline (CAS Reg.Nbr 91-53-2) is eventually added to retard oxidation (also known as Ethoxyquin). Alternative retardant of oxidation are natural antioxidants such as, but not limited to

1. Naturox liquid composed of mono and diglycerides, natural mixed tocopherols, citric acid and rosemary extract
2. Termox BCP liquid composed of BHA, propyl gallate and citric acid
3. Termox liquid FG which is a mixture of BHT and BHA

Hazard Symbols IMO9 or IMO4.2 Transportation symbols  
RISK PHRASES Not Listed



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**SECTION 3- HAZARDS IDENTIFICATION**

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|                                 |  |
|---------------------------------|--|
| <b>Appearance:</b>              | Reddish and/or pinkish solid powder.   |
| <b>Potential Health Effect:</b> | On crustacean-like allergic people might produce irritation, slight eyes congestion and slight difficulty to breath. |
| <b>Primary Routes of Entry:</b> | Inhalation/ Ingestion.   |
| <b>Skin:</b>                    | No effects expected.   |
| <b>Ingestion:</b>               | This material is a slightly sweet, powder-form solid material.   |
| <b>Inhalation:</b>              | Exposure to high airborne concentration may cause mild respiratory irritation.                                       |
| <b>Chronic:</b>                 | No information found.  |



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#### SECTION 4- FIRST AID MEASURES

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No special treatment under ordinary circumstances. Use good personal hygiene and wash thoroughly with soap and water after handling.

If redness or irritation develops, contact a physician.

- Eyes:** No special treatment under normal circumstances.  
Flush eyes with plenty of fresh water.
- Skin:** No special treatment under normal circumstances.  
Flush skin with plenty of fresh water.
- Ingestion:** No special treatment under normal circumstances.
- Inhalation:** No special treatment under normal circumstances.  
Remove from exposure and move to fresh air immediately.
- Notes to Physician:** Dried krill meal, made from whole raw krill, is not intended for human consumption based on extensive toxicological studies related to fluoride content in food intended for human consumption.

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#### SECTION 5-FIRE FIGHTING MEASURES

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|                              |                            |
|------------------------------|----------------------------|
| Flammability                 | Nil at ambient temperature |
| Extinguishing media          | CO2, dry foam              |
| Flash point                  | NA                         |
| Explosive properties         | NA                         |
| Hazardous combustion product | None.                      |

Appropriate measures should be employed to minimize the potential for dust concentrations.



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## SECTION 6- ACCIDENTAL RELEASE MEASURES

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Spillage                                      Sweep or vacuum up, then dispose.  
Environmental precautions    Avoid disposal into drains.

Avoid creating conditions that will contribute to high concentrations of krill meal dust. Carefully sweep or vacuum up into waste container.

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## SECTION 7- HANDLING AND STORAGE

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### Handling:

Avoid creating dusty conditions. While no special respiratory protection is required, a dust mask, gloves and other good industrial hygiene practices to minimize worker exposure will result in a more comfortable work environment.

### Storage:

Store in a cool dry area in manufacturer's supplied packaging.

Temperature should be monitored and if it rises above 35°C (or greater than 5°C above ambient temperature, whichever is greater), provisions must be made for moving or cooling the product. Keep the product dry, away from direct sunlight and well ventilated.

Alternatively, use reefer storage condition in which case cold storage should at all times prevent moisture damage

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## SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Engineering Controls

It is recommended that all dust control equipment and material transport systems involved are engineered in such a way so to prevent conditions contributing to dust explosions.

- Local exhaust
- Dust mask, if allergic
- Gloves, if allergic
- Goggles



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## SECTION 9-PHYSICAL AND CHEMICAL PROPERTIES

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|                |  |
|----------------|--|
| Physical state | Solid  |
| Appearance     | Powder                                       |
| Color          | Pinkish, Reddish, Red-Pink, Brownish-reddish |
| Odor           | Light shrimp, light sweet                    |

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## SECTION 10-STABILITY AND REACTIVITY

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### Chemical Stability:

Stable under normal conditions of temperature and pressure.

**Conditions to Avoid:** Avoid prolonged storage at elevated temperatures, direct light exposure and high moisture environments

**Incompatible Materials:** None

|                    |                   |
|--------------------|-------------------|
| Stability          | Product is stable |
| Materials to avoid | Oxidants          |

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## SECTION 11-TOXICOLOGICAL INFORMATION

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**Acute Studies:** Material is a non-toxic feed additive  
No mortality at the highest tested doses.

|         |  |
|---------|--|
| Eye     | If product enters eye it may cause slight irritation                       |
| Skin    | Not expected to be a skin irritant   |
| Inhaled | Inhalation of dust during process may cause irritation to sensitive people |



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## SECTION 12-ECOLOGICAL INFORMATION

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Dried aqua-grade krill meal is biodegradable and poses no risk to the environment. Dried krill meal and its breakdown products are non-toxic to plant and animal life, and do not accumulate in plant or animal tissue.

|                    |                          |
|--------------------|--------------------------|
| Ecotoxicity        | No information available |
| Persistence        | No information available |
| Mobility           | No information available |
| Environmental fate | No information available |
| Bioaccumulative    | No information available |

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## SECTION 13-DISPOSAL CONSIDERATIONS

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The product should be disposed off in suitable waste containers and treated as a solid waste.

Dispose in accordance with federal, state and local regulations.

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## SECTION 14-TRANSPORT INFORMATION

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Following precautions are to be taken during transportation, storage and handling:

- Keep original packaging container dry
- Keep transportation containers dry
- Keep container in a well ventilated place
- Keep away from strong oxidizing agents and strong acids
- Keep away from heat
- This material and its packaging material must be disposed of in a safe way
- Keep temperature not exceeding 35° or 5°C above the ambient temperature; whichever is higher, at time of the shipment
- When using reefer containers and/or cold storage prevent excess moisture conditions
  - **Proper Shipping Name & Information:**
  - Hazard Class: IMO subject to antioxidant application
  - DOT Shipping Label: IMO
  - Packaging Exemptions: Non-hazardous
  - Packaging Requirements: Non-hazardous
  - Freight Classification: IMO



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## SECTION 15-REGULATORY INFORMATION

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This product is classified as IMO9 when it has been stabilized with antioxidant or IMO4.2 if it hasn't been treated with antioxidant.

Proper IMO labels must be used if transported on either dry or reefer containers.

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## SECTION 16-OTHER INFORMATION

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### Disclaimer

Information for this Material Safety Data Sheet was obtained by sources and considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond full control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied. The supplier will not be liable to any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Center for Occupational Health and Safety (CCOHS) in Hamilton, Ontario, 905.572.4400 or the CSST in Montreal, Quebec, 514.873.3390.