



BioWorks®

NemaShield®

Date: September 9, 2013

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: NemaShield®

Manufactured for:

BioWorks, Inc.
100 Rawson Rd, Suite 205
Victor, NY 14564

Manufactured by:

BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Emergency Telephone Numbers:

BioWorks, Inc: 1-800-877-9443

BASF HOTLINE: 1-800-832-4357

CHEMTREC: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview:

KEEP OUT OF REACH OF CHILDREN
KEEP OUT OF REACH OF DOMESTIC ANIMALS

State of matter: liquid
Color: light brown
Odor: perceptible

Potential Health Effects:

Primary routes of exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gasses.

Acute toxicity:

Virtually nontoxic after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after single skin contact.

Irritation / corrosion:

Not irritating to the skin. Not irritating to the eyes.

Sensitization:

There is no evidence of a skin-sensitizing potential.

Carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organ toxicity was observed after repeated administration to animals.

Reproductive toxicity: The product has not been tested. The statement has been derived from the properties of

the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Genotoxicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Signs and symptoms of overexposure:

No significant reaction of the human body to the product known.

Potential environmental effects

Aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Degradation / environmental fate:

The product has not been tested. The statement has been derived from the properties of the individual components. Biodegradable.

Bioaccumulation / bioconcentration:

The product has not been tested. The statement has been derived from the properties of the individual components.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS Number	Content (W/W)	Chemical name
	89.0%	Nematode (<i>S. feltiae</i>)
10101-39-0	1.0 – 5.0%	calcium silicate
	6.0 – 10.0%	Proprietary ingredients

4. FIRST-AID MEASURES

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

If on skin:

Wash thoroughly with soap and water.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:

Rinse mouth and then drink plenty of water.

Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

5. FIRE FIGHTING MEASURES

Flash point: >100°C

Autoignition: Based on the water content the product does not ignite.

Lower explosion limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Lower explosion limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Flammability: not applicable

Suitable extinguishing media:

Water spray, dry powder, foam, carbon dioxide

Hazards during fire-fighting:

Carbon monoxide, carbon dioxide, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire.

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Do not breathe vapor/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Cleanup:

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

7. HANDLING and STORAGE

Handling:

General advice:

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

Storage:

General advice:

Keep away from heat. Protect from direct sunlight. Store protected against freezing.

Storage incompatibility:

General advice: Segregate from foods and animal feeds.

Storage stability:

Storage temperature: 5°C

Avoid freezing. Protect from heat and cold.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment

Respiratory protection:

Respiratory protection not required.

Hand protection:

Impermeable gloves

Eye protection:

Safety glasses with eye-shields.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:

Wearing of closed work clothing is recommended. Handle in accordance with good industrial hygiene and safety practice. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	gel, moist	
Odor:	perceptible	
Color:	light brown	
pH value:	approx. 5-7	(20°C)
Melting temperature:	approx. 0°C	Information applies to the solvent.
Boiling temperature:	approx. 100°C	Information applies to the solvent.
Vapor pressure:	approx. 23.4 hPa	(20°C) Information applies to the solvent.
Density:	approx. 0.48 g/cm ³	(20°C)
Vapor density:		Not applicable
Partitioning coefficient n-octanol/water (log/Pow):		Not applicable
Viscosity, kinematic:		Forms a viscous solution.
Solubility in water:		dispersible

10. STABILITY AND REACTIVITY

Conditions to avoid:

See MSDS section 7 – Handling and storage.

Substances to avoid:

Strong acids, strong bases, strong oxidizing agents

Hazardous reactions:

No hazardous reactions if stored and handled as prescribed/indicated.

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

11. TOXICOLOGICAL INFORMATION

Other information:

Misuse can be harmful to health.

12. ECOLOGICAL INFORMATION

Fish

Acute:

No data available

Aquatic invertebrates

Acute:

No data available

Aquatic plants

Toxicity to aquatic plants:

No data available.

Bioaccumulation

At the present state of knowledge, no negative ecological effects are expected.

Other adverse effects:

Do not discharge product into the environment without control.

13. DISPOSAL CONSIDERATIONS

Waste disposal of substance:

Must be sent to a suitable incineration plant, observing local regulations.

Container disposal:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. TRANSPORT INFORMATION

Land transport

USDOT Not classified as a dangerous good under transport regulations

Sea transport

IMDG Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO Not classified as a dangerous good under transport regulations

15. REGULATORY INFORMATION

Federal Regulations:**Registration status:**

Chemical TSCA, US released/listed

Fertilizer TSCA, US released/listed

OSHA hazard category: Chronic target organ effects reported;

EPCRA 311/312 (Hazard categories): Chronic;

16. OTHER INFORMATION

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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End of data sheet