

Safety Data Sheet

Trade name: Retaliate - BN/Hb

Product No: Retaliate – BN/Hb

Version: 1.1

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SECTION 1: Identification

Product identifier:

Beneficial Nematode:

Trade Name: Retaliate – BN/Hb

Other means of Identification

Trade Code: Retaliate – BN/Hb

Supplier, Importer or other responsible party:

Asymmetry Technologies, Inc.
104 Three West Parkway, #300
Villa Rica, GA 30180
USA

Emergency Telephone Number

855-553-2716

SECTION 2: Hazards Identification

Classification of the substance or mixture:

This product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

Label elements

This product is not a hazardous product and need not be labeled according to EC Directive 67/548, 99/45 as amended.

Ingredients with unknown acute toxicity

NONE

Hazards not otherwise classified identified during the classification process:

NONE

SECTION 3: Composition/Information on Ingredients

Substances:

Does not meet the criteria of a substance

Mixtures

Beneficial Nematodes: Heterorhabditis bacteriophora suspended on hydrogel.

List of Components

| <i>Chemical Name</i> | <i>% Weight</i> | <i>Identifiers</i> | <i>Comments</i> |
|--|-----------------|--------------------|-----------------|
| Beneficial Nematode (Heterorhabditis bacteriophora) | ➤ 40 % | NA | NA |
| Hydrogel | ➤ 55% | NA | NA |
| Diatomaceous Earth | ➤ 5 | NA | NA |

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SECTION 4: First Aid Measures

Description of first aid measures

Inhalation: Move exposed person to fresh air.

Skin: Wash immediately with water and non-abrasive soap. Remove contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

Ingestion: Rinse mouth and throat. Drink water to dilute.

Eye: Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Most important symptoms and effects, both acute and delayed

Not Determined

Indication of any immediate medical attention and special treatment needed

Not Determined

SECTION 5: Fire-Fighting Measures

Extinguishing media:

This product is non-combustible. No extinguishing media or special fire-fighting procedures are required. There are no unusual fire or explosion hazards.

Unsuitable Extinguishing Media:

None Determined

Specific Hazards Arising From the Substance or Mixture:

None Determined

Special Personal Protective Equipment and Precautions for Fire-Fighters:

Wear suitable respiratory equipment when necessary.

Move undamaged containers from immediate hazard area but only if it can be done safely.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Wear personal protective equipment.

Remove exposed persons to safety.

See protective measures under point 7 and 8.

Methods and material for containment and cleanup

Prevent further spillage, if safe. Accidental releases do not pose environmental risks.

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Sweep up. Transfer to suitable, labelled containers for reuse or disposal. Clean spillage area thoroughly with plenty of water.

SECTION 7: Handling and Storage

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of dust and mists.

Do not eat or drink while working

Adopt good chemical hygiene practices when handling, carrying and dispensing.

Conditions for safe storage, including and incompatibilities

Store in a tightly closed container in a cool, dry, well-ventilated area.

SECTION 8: Exposure Controls/Personal Protection

Control Parameters

No Data Available

Appropriate Engineering Controls

Not Determined

Individual Protection Measures

Eye/Face Protection :

Safety glasses or chemical goggles are recommended.

Skin Protection :

No special precautions necessary for normal use.

Hand Protection :

As a precaution, wear chemical resistance gloves (PVC, neoprene or butyl).

Respiratory Protection :

If airborne dust generated, wear suitable NIOSH approved dust mask.

NIOSH = National Institute of Occupational Safety and Health

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State: paste

Appearance: Tan (Visual)

Odor: Musty (Organoleptic)

pH: Not determined (pH Meter)

Melting Point/range: Not Determined

Boiling Point/range: Not Determined (OECD Guideline 103)

Flash Point: Not Determined (201 F) (Pensky-Martens Closed Cup Test (ASTM D93))

Evaporation rate: Not determined (Shell Thin-Film Evaporometer ASTM D3539 – 87 (2004))

Upper/lower flammability or explosion limits: Not determined (ASTM E681-09)

Vapor Density: Not Determined (Calculation)

Vapor Pressure: Not Determined (ASTM D5190 – 07)

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Density: Not Determined (OECD Guideline 109)

Water solubility: Soluble (OECD Guideline 105)

Lipid Solubility: Insoluble (OECD Guideline 105)

Partition coefficient (n-octanol/water): Not determined (OECD Guideline 123 Slow Stirring Method)

Auto-ignition temperature: Not determined (ASTM E659 Method for Liquid Chemicals)

Decomposition temperature: Not determined (Time Pressure Test Vessel)

Viscosity: Not determined (OECD Guideline 114)

Explosive properties: Not determined (UN Test 3(a)ii BAM Fallhammer)

Oxidizing properties: Not determined (oxidizing liquids test chamber)

Flammability (Solid, Gas): Not determined (ASTM Method E681-94)

Other Information

Miscibility: Not determined

Fat solubility: Not determined

Conductivity: Not determined (conductivity meter)

SECTION 10: Stability and Reactivity

Reactivity

Stable under normal conditions.

Chemical Stability

Data not available.

Possibility of Hazardous Reactions

Burning produces carbon monoxide and/or carbon dioxide.

Conditions to Avoid

Stable under normal conditions of temperature and pressure.

Incompatible Materials

Avoid strong oxidizing agents, peroxides, acids, alkali metals.

Hazardous Decomposition Product

Burning produces carbon monoxide and/or carbon dioxide.

SECTION 11: Toxicological information

Information on toxicological effects

Toxicological information of the product, no data available.

Substance(s) listed on the IARC Monographs:

None

Substance(s) listed as OSHA Carcinogen(s):

None

Substance(s) listed as NIOSH Carcinogen(s):

None

Substances listed on the NTP report on Carcinogens:

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None

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SECTION 12: Ecological Information

Toxicity:

Adopt good working practices so that the product is not released into the environment

Persistence and Degradability:

Not Determined

Bioaccumulative Potential

Not Determined

Mobility in Soil

Not Determined

Other Adverse Effects

Not Determined

SECTION 13: Disposal Considerations

Waste treatment methods

Any disposal practice must be in compliance with local, state and federal laws and regulations.
Contact local or state environmental agency for specific rules. Do not dump into sewers, any body of water or onto ground.
Recover if possible and comply with applicable regulations.

SECTION 14: Transportation Information

UN Number

ADR-UN Number: N/A
DOT-UN Number: N/A
IATA-UN Number: N/A
IMDG-UN Number: N/A

UN Proper Shipping Name

ADR-Shipping Name: N/A
DOT Proper Shipping Name: N/A
IATA-Technical Name: N/A
IMDG-Technical Name: N/A

Transport Hazard Class(es)

ADR-Class: N/A
DOT Hazard Class: N/A
IATA-Packaging Group: N/A
IMDG-Class: N/A

Packaging Group

ADR-Packaging Group: N/A
Exempted for ADR: N/A

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IATA-Packing Group: N/A

IMDG-Packaging Group: N/A

Environmental Hazards

Marine pollutant: NO

Environmental Pollutant: Not Determined

Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code

Not determined

Special Precautions

Department of Transportation (DOT)

DOT-Special Provision(s): N/A

DOT Label(s): N/A

DOT Symbol: N/A

DOT Cargo Aircraft: N/A

DOT Passenger Aircraft: N/A

DOT/TDG Bulk: N/A

DOT Non-Bulk: N/A

Road and Rail (ADR-RID)

ADR-Label: N/A

ADR-Upper Name: N/A

ADR Tunnel Restriction Code: N/A

Air (IATA)

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Sub Risk: N/A

IATA-Erg: N/A

IATA-Special Provisioning: N/A

SEA (IMDG)

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A

IMDG-Sub Risk: N/A

IMDG-Special Provisioning: N/A

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-EMS: N/A

IMDG-MFAG: N/A

SECTION 15: Regulatory Information

USA – Federal Regulations

TSCA-Toxic Substance Control Act

TSCA Inventory

No substance listed

Section 313 – Toxic chemical list

No substance listed

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USA – State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65

No substances listed

SECTION 16: Other Information

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific intended use.

This SDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

CLP: Classification, Labeling, Packaging

EINECS: European Inventory of Existing Commercial Chemical Substances

INCI: International Nomenclature of Cosmetic Ingredients

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC 50: Lethal concentration, for 50 percent of test population

LD 50: Lethal dose, for 50 percent of test population

TLV: Threshold Limiting Value

STEL: Short Term Exposure Limit

STOT: Specific Target Organ Toxicity

WGK: German water Hazard Class

KSt: Explosion coefficient