SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Bee venom from Apis mellifera (honey bee)
SYNONYMS: Apitoxin

SUPPLIER: Manufactured by Apitoxin
ADDRESS: Filgränd 89, 906 28 Umeå, Sweden
WEBSITE: www.apitoxin.se

EMERGENCY: Call your local emergency number or poison center

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards
Target Organ Effect

Target Organ
Central nervous system, Heart

GHS Classification
Not a dangerous substance according to GHS.

Potential Human Health Hazards

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed trough skin, May cause skin irritation.
Eyes May cause eye irritation
Ingestion May be harmful if swallowed

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component
Bee venom Apis Mellifera (honey bee)
SECTION 4: FIRST AID MEASURES

General advice
Move out of dangerous area

Inhalation
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Skin
In case of skin contact, wash off with soap and plenty of water.

Eye
In case of eye contact, flush eyes with water as a precaution.

Ingestion
If swallowed, rinse mouth with water. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE-FIGHTING MEASURES

Conditions of flammability
Not flammable or combustible

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters
Wear self contained breathing apparatus for firefighting if necessary.

Hazardous combustion products
Hazardous decomposition product formed under fire conditions. Nature of decomposition products not known.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions
Avoid dust formations. Avoid breathing vapors, mist or gas.

Environmental precautions
Do not let product enter drains

Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.
SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage
Storage & Transportation: Maximum 25 - 30° C for 3 weeks.
Medium term storage: 4° C for 3 months
Long term storage: -20° C.

Keep container tightly closed in a dry and well-ventilated place.
Moisture sensitive. Keep in a dry place.

SECTION 8: EXPOSURE CONTROLS/PERSOINAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dust are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin and body protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substances at the specific workplace.

Hygiene measures
General industrial hygiene practice.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

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Safety data

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<td>Boiling point</td>
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<td>Flash Point</td>
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<tr>
<td>Ignition temperature</td>
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<tr>
<td>Evaporation rate</td>
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</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions

Possible of hazardous reactions
No data available

Conditions to avoid
Moisture

Materials to avoid
Strong oxidizing agents

Hazardous decomposition products
Hazardous decompositions products formed under fire conditions: Nature of decomposition product not known.
Other decomposition products: No data available
SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral Toxicity

Acute Dermal Toxicity
There were no treatment-related effect on mortality, clinical signs, body weight changes and gross findings in rats treated with a single dermal dose of BV at dose of 1,500 mg/kg BW. Therefore, the approximate lethal dose of BV was considered to be over 1,500 mg/kg/day for both sexes of rats. BV may provide a developmental basis for a cosmetic ingredient or external application for topical uses. http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3834407/pdf/toxicr-28-99.pdf

Inhalation LD50
No data available

Other information on acute toxicity
No data available

Skin corrosion/irritation
See Acute Dermal Toxicity

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ cell mutagenicity
No data available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

Teratogenicity
No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)
Specific target organ toxicity - repeated exposure (Globally Harmonized System)
No data available

Aspiration hazard
No data available

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion May be harmful if swallowed.
Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes
May cause eye irritation.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects
No data available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity
No data available

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available

PBT and vPvB assessment
No data available

Other adverse effects
No data available

SECTION 13: DISPOSAL CONSIDERATIONS
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: REGULATORY INFORMATION

OSHA Hazards
Target Organ Effect

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Chronic Health Hazard

SECTION 16: OTHER INFORMATION

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Apitoxin Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.