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Agrenz ltd

Bio Security and Public Health Formulations

Safety Data Sheet

Section 1 - Identification of The Material and Supplier

Agrenz Ltd
53 Mains Avenue
Kensington
Whangarei 0112
Phone: 09 4591802 (office hours)
Email: paul@agrenz.co.nz

Chemical nature: Not a chemical

Trade Name: **Summit® Mosquito Dunks®/BTI Briquets®**

Manufacturer: Summit Chemical Company
235 S. Kresson Street
Baltimore
MD 21224-2616
800-227-8664

EPA HSNO Approval Code: NZD EPA HSR000018
US EPA Establishment No. 6218-47

Product Use: Biological mosquito larvicide

Restriction on Use:
Keep out of the reach of children. Avoid contact with eyes, skin or clothing.

Creation Date: **June 2019**

This version issued: **June 2019** and is valid for 5 years from this date.

Poisons Information Centre: 0800 764 766 in New Zealand

American Emergency Chemtrec 800-262-8200

Section 2 - Hazards Identification

Statement of Hazardous Nature

HSNO Classification: This product is classified as: 2B Eye irritation

GHS Classification:

GHS Signal Word: WARNING

Causes Eye Irritation

SUSMP Classification: None allocated.

UN Number: None allocated

PREVENTION

- P102: Keep out of reach of children.
- P262: Do not get in eyes, on skin, or on clothing

P264: Wash hands after handling
P273: Avoid release to the environment.
P281: Use personal protective equipment as required.
Avoid breathing dust – wear dust mask when handling.
Wear protective clothing, eye protection And impervious gloves.

RESPONSE

P337: If eye irritation persists: seek medical attention.
P353: Rinse skin or shower with water.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE

P402+P403+P404: Store in a dry place. Store in a closed container in a dry, cool, well ventilated area out of direct sunlight.

DISPOSAL

P501: Dispose of contents and containers as specified on the registered label and in accordance with local/regional/national regulations.

Emergency Overview

Physical Description & Colour: Light Brown
Odour: Mild odour
Major Health Hazards: No significant risk factors have been found for this product

Section 3 - Composition/Information on Ingredients

Composition		
Name	**Identifiers**	**%**
Bacillus thuringiensis subspecies *israelensis*	None : Microbial active ingredient	10.31%
Other ingredients	Not classified	89.69%

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been affected by this product – or if feeling unwell, seek a doctors advice. The number 0800 764 766 in New Zealand and is available at all times. Have this SDS with you when you call. Never give anything my mouth to an unconscious person.

Inhalation: IF INHALED: If breathing affected, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms occur or contact a Poisons Information Centre. If person not breathing call 111. Then give artificial respiration.

Skin Contact: IF ON SKIN Remove from source of exposure and take off contaminated clothing. Wash all exposed skin with mild soap and a warm water rinse. If irritation continues get medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact: IF IN EYES Remove from source of exposure. Quickly and gently remove particles from eyes. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed – remove contact lenses. Take special care if exposed person is wearing contact lenses. If there is still irritation, call a poison control centre or doctor for treatment advice.

Ingestion: If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Most important symptoms and effects, both acute and delayed
Acute – Possible eye and skin irritation.
Delayed – No information on significant adverse effects.
Indication of any immediate medical attention and special treatment needed
Notes to Physician - Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

Extinguishing media

Suitable Extinguishing media Dry chemical powder, light water spray, carbon dioxide, or foam.
Unsuitable Extinguishing media Avoid heavy hose streams.
Firefighting Procedures Do not allow firefighting water to escape into waterways or sewers. Combustible dust – use low- pressure medium fog streams to avoid dust clouds.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards Not expected to be flammable.

Thermal decomposition products Hazardous Carbon oxides, nitrogen oxides.

Advice for Firefighters *Wear full-face, self-contained breathing apparatus and impervious* Protective clothing. Avoid inhaling combustion products (see Section 8 (Exposure Controls / Personal Protection).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Wear appropriate personal protective equipment (Overalls, goggles, gloves and dust mask) and avoid direct contact. Ventilate enclosed areas. (See section 8)

Emergency Procedures ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Contain spill and monitor. Keep unauthorised personnel away. Ventilate closed spaces before entering.

Environmental precautions

Avoid run off to waterways and sewers.

Methods and Material for containment and cleaning up

Containment/Clean-up Measures

Wear appropriate personal protective equipment, avoid direct contact. Sweep up material and place in appropriate container for disposal. Avoid generating dust.

Ensure legality of disposal by consulting regulations prior to disposal including NZ EPA Hazardous Substances (Disposal) Notice 2017.

Section 7 - Handling and Storage

Handling:
Avoid contact with skin, eyes and clothing. Wear appropriate personal protective equipment (see Section 8 of this SDS), avoid direct contact. Do not use in areas without adequate ventilation. Take precautionary measures against static charges. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Don't eat, drink, chew gum or smoke while working with this product.

Storage: Store in a cool, dry, well ventilated area away from children. Make sure that containers of this product are kept tightly closed and use only original containers with original labels. Keep container closed when not being used. Check packaging - there may be further storage instructions on the label.

Incompatible Materials or Ignition Sources: Strong bases, acids.
Keep away from sources of ignition.

Section 8 - Exposure Controls and Personal Protection

Bacillus thuringiensis subspecies *israelensis* solids, spores and insecticidal toxins* 7,000 aedes eypti (AA) International Toxic Units (ITU) per mg of primary powder		
USA ACGIH	ACGIH TWA (mg/m3)	5 mg/m3

EXPOSURE CONTROLS

Engineering Measures/Controls
Provide general ventalition.
Eye/Face Protection: Eye protection such as safety glasses or goggles is recommended when product is being used (with side shields). **AS/NZS 1337**
Skin Protection: If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact. Protective gloves **AS/NZS 2161** Occupational Protective Clothing **AS/NZS 4501** set and Occupational Protective Footwear **AS/NZ 2210**
Material Types: Gloves made of impervious materials.
Respirator: Wear a dust/moist filtering respirator or Dust Mask. **AS/NZS 1715.**
General Industrial Hygiene Considerations: Do not eat, drink or smoke when handling this product.
Environmental Exposure Controls: Controls should be engineered to prevent release to the environment, including procedures to prevent spills, and release to waterways or sewage systems.

Section 9 - Physical and Chemical Properties:

Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Light Brown granular solid
Colour	Light brown	Odour	Mild Musty characteristic
General Properties			
Boiling Point	Not applicable	Melting Point/Freezing Point	Not applicable
Decomposition Temperature	No data available	pH	Not applicable
Specific Gravity/Relative Density	Not determined	Bulk Density	0.48 g/mg
Water Solubility	Suspends and partially soluble	Viscosity	Not relevant
Volatility			
Vapor Pressure	Not applicable	Vapor Density	Not applicable
Evaporation Rate	No applicable		
Flammability			
Flash Point	Not relevant	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability(solid,gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	Not applicable		

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Reactivity: Does not pose any significant reactivity hazard.
Conditions to Avoid: Heat - extremely high temperatures.
Incompatibilities: Incompatible materials – None known.
Hazardous Decomposition products – Carbon oxides and unidentified organic compounds.

Section 11 - Toxicological Information

Information on toxicological effects

Likely routes of Exposure:

Eye Contact: Yes

Skin Contact: Yes

Ingestion: No

Inhalation: No

Acute Effects: Product Toxicology Studies (Data for Technical, unless noted)

ORAL TOXICITY: LD50 > 5,000 mg/kg (rat)

DERMAL TOXICITY: LD50 > 5,000 mg/kg (rabbit)

INHALATION TOXICITY: LD50 > 2.84 mg/L air (maximum feasible concentration)

CORROSIVENESS: Not corrosive

DERMAL IRRITATION: Mildly or slightly irritating

OCULAR IRRITATION: Slightly irritating

DERMAL SENSITIZATION: (For Formulated Product) Not a sensitizer (guinea pig)

MUTAGENICITY INFORMATION: Components of this product are not expected mutagens.

CARCINOGENICITY INFORMATION: Components of this product are not listed as carcinogenic by NTP, IARC or OSHA.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY: This material is not pathogenic.

SPECIAL TARGET ORGAN EFFECTS: Slight Eye or skin irritation.

ASPIRATION HAZARD: Not applicable.

REPEAT DOSE STUDIES: Not applicable, Pathogenicity Toxicity testing was all negative.

Section 12 - Ecological Information

12.1 Ecotoxicity (Data for a Concentrated Technical Powder)

Fish: LC50 >370 mg/L (96-H, Rainbow Trout)
Bird: LC50 >3077 mg/kg (6.2 x 10^{11} cfu/kg) (Acute Oral – Bobwhite Quail)
LC50 >3077 mg/kg (6.2 x 10^{11} cfu/kg) each day for 5 days (Sub-Acute Oral (dietary) – Bobwhite Quail)
Invertebrates: LC50 > mg/L (48-H) (Daphnia)
Bees: Essentially non-toxic to honey bees.

12.2 Persistence and Degradability

No data available

12.3 Bioaccumulation potential

Not applicable. Substance is not pathogenic to non-target organisms

12.4 Mobility in Soil

No data available

12.5 Results of PBT and vPvB assessment

Assessments not performed

12.6 Other adverse effects

None known

Section 13 - Disposal Considerations

Disposal Containers: Do not reuse product containers. Dispose in accordance with manufacturers label instructions.

Disposal Product: If discarded, is not expected to be a characteristic or listed hazardous waste. Dispose as per local/national regulations and label instructions. Avoid release into the environment.

Section 14 - Transport Information

	UN Number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	N/A	Not regulated	N/A	N/A	N/A
IMO/IMDG/IMSBC	N/A	Not regulated	N/A	N/A	N/A
IATA/ICAO	N/A	Not regulated	N/A	N/A	N/A

Special precautions for user None specified
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No data available
Other information Do not load or store with explosives
IMO/IMDG/IMSBC No data available
IATA/ICAO No data available

Section 15 - Regulatory Information

EPA: NZ HSNO Approval Number - HSR000018
: USA Registration number: 73049-10

Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA STATUS: Exempt

CERCLA STATUS: Not regulated as hazardous

SARA STATUS: Acute: No Chronic: No Fire: No CDT: No

RCRA STATUS: Not regulated as hazardous

State Right-To-Know: Not listed

Consult applicable national, state provincial or local laws to determine regulations, Laws or cordinances which may be applicable.

OSHA HAZARD COMMUNICATION STANDARD: Not defined by the OSHA Hazard Communication standard, 29 CFR

EPA – Pesticide Regulations

EPA NZ Registration number HSNO Approval - HSR000018
EPA USA Registration number: 73049-10
EPA Pesticide Label signal word: CAUTION
Product must have EPA Approved Pesticide Label attached to or accompanying all containers.

This chemical is a pesticide product registered by the United States Environment Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS) and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

ENVIRONMENTAL HAZARDS

Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Do not apply directly to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.

STORAGE AND DISPOSAL

Do not contaminate potable water, food or feed by storage or disposal.

Storage: Store in cool {59-86°F (15-30°C)}, dry place.

Pesticide Disposal: Completely empty bag into application equipment. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. If recycling is not available dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Section 16 - Other Information

Disclaimer/Statement of Liability

The information provided in this Safety Data Sheet is provided in good faith and believed to be accurate at the time of preparation of the SDS.

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility.

Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.