MATERIALSAFETYDATASHEET

VERMINENCE 50WG

1. Identification

Product Name	Flonicamid 50% WG
CAS-No	158062-67-0
Substance groups	Pyridine insecticide

Details of the supplier of the safety data sheet

Company Name: Shandong Huimin Vanda Biological Technology Co., Ltd.

Address: Jinan Plant Protection Technology Industrial Park, Hanmiao Town, Shanghe County, Jinan City, Shandong Province, China.

Tel: +86 531 84981777

Fax: +86 541 84981777

2.Hazards identification

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Specific target organ toxicity (single exposure) Category 2

GHS Label elements, including precautionary statements

Warning

Hazard Statements

H371 - May cause damage to organs



Precautionary Statements - Prevention

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

Precautionary Statements - Response

P308 + P311 - If exposed or concerned: Call a POISON CENTER or doctor

Precautionary Statements - Storage

P405 - Store locked up

Precautionary Statements - Disposal

P501 - Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

May cause moderate eye irritation. May form combustible dust concentrations in air.

3. Composition/Information on Ingredien

Component	CAS-No	Content %w/w
Flonicamid	158062-67-0	50.0
Calcium dodecylbenzene Sulfonate	26264-06-2	7.0
PVP	25249-54-1	8.0
Sodium dodecylbenzenesulphonate	25155-30-0	3.0
Kaolin	100403-46-1	Add to 100

4.First-aid measures

Eyes Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for further treatment advice.

Skin Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20minutes. Call a poison control center or doctor for further treatment advice.

Ingestion Call a poison control center or doctor immediately for treatment advice Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor Do not give anything by mouth to an unconscious person.

Inhalation Move to fresh air. If person is not breathing, call 911 (within the U.S. and Canada) or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Most important symptoms and effects, both acute and delayed

None known.

Note To Physician

Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

5. Fire-fighting measures

Suitable Extinguishing Media

Carbon dioxide (CO_2). Foam. Dry chemical. If necessary: Use water spray or fog; do not use straight streams.

Specific Hazards Arising from the Chemical

Avoid dust formation. Fine dust dispersed in air may ignite. Combustible material

Explosion data

Sensitivity to Mechanical Impact

No information available.

Sensitivity to Static Discharge

No information available.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit. Isolate fire area. Evaluate upwind.

6. Accidental release measure

Personal Precautions

Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.

Other

For further clean-up instructions, call FMC Emergency Hotline number listed inSection1"Product and Company Identification" above.

Environmental Precautions

Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.

Methods for Containment

Cover powder spill with plastic sheet or tarp to minimize spreading. Use a wet sweeping compound or water to prevent dust formation. Dike far ahead of spill to collect runoff water.Vacuum, shovel or pump waste into a drum and label contents for disposal.

Methods for cleaning up

Clean and neutralize spill area, tools and equipment by washing with water andsoap. Absorb rinsate and add to the collected waste. Dispose of waste as indicated inSection13.

P. O. Box: 29024 - 00100 Nairobi - Kenya
Office Line: +254 20 240 3391/+254 717 742 436 /+254 740 529 579
Email: info@eabusinesscompany.com, eabclimited@gmail.com

7. Handling and storage

Precautions for safe handling

Do not contaminate other pesticides, fertilizers, water, food, or feed by storageor disposal. Reference to other sections.

Conditions for safe storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep/store only in original container.

Incompatible products

None known.

8. Exposure controls / personal protection

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal Protective Equipment

Eyes: If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Skin: Wear long-sleeved shirt, long pants, socks, and shoes.

Hand: Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks.

Respirators: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures: Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bath eat the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

P. O. Box: 29024 - 00100 Nairobi - Kenya
Office Line: +254 20 240 3391/+254 717 742 436 /+254 740 529 579
Email: info@eabusinesscompany.com, eabclimited@gmail.com

General information: Clean water should be available for washing in case of eye or skin contamination. Wash hands prior to eating, drinking chewing gum or using tobacco. Shower or bath eat the end of working

9. Physical and chemical properties

Physical State	Solid
Appearance	Off-white granule
Odor	Mild
Boiling Point/Range	Not applicable
Density	Not applicable
Vapor Pressure	Not applicable
Solubility	Disperses

Note: These physical data are typical values based on material tested but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. Stability and reactivity

Reactivity: Not applicable

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None under normal processing.

Hazardous polymerization: Hazardous polymerization does not occur.

Conditions to avoid: Heat, flames and sparks

Incompatible materials: None known.

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating gases and vapors.

11. Toxicological Information

Acute Oral LD_{50} (rat): >5000 mg/kg

Acute Dermal LD_{50} (rat): >2000 mg/kg

Inhalation LC_{50} (rat): > 5.36 mg/l

Eye Irritation (rabbit): Non-irritation

Skin Irritation (rabbit): Non-irritation

Skin Sensitization (guinea pig): Non-sensitiser

12. Ecological Information

Acute oral LD_{50} for bobwhite quail: > 2000 mg/kg b.w.

Acute toxicity to fish: LC_{50} (96 h) for rainbow trout > 100 mg/l.

Acute toxicity to bees by contact and oral: LD_{50} (oral)> 100 µg/bee; (contact)>100 µg/bee.

13. Disposal considerations

Waste disposal methods

Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

Contaminated Packaging

Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

14. Transport Information

DOT This material is not a hazardous material as defined by U.S. Department of Transportation at 49 CFR Parts 100 through 185.

TDG Not regulated in transportation.

ICAO/IATA Not regulated in transportation. **IMDG/IMO**

Not regulated in transportation.

15. Regulatory information

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	No

P. O. Box: 29024 - 00100 Nairobi - Kenya
Office Line: +254 20 240 3391/+254 717 742 436 /+254 740 529 579
Email: info@eabusinesscompany.com, eabclimited@gmail.com

Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

16. Other information

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.