



SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **Flavomycin 40**
 Product Use: A premix feed-additive for broiler chickens, turkeys and laying hens

Restriction of Use: Refer to Section 15

New Zealand Supplier: **Agrihealth NZ Ltd**
 Address: Level 2, 89 Grafton Road,
 Auckland 1010

Telephone: +64 9 215 1199
Emergency No: 0800 764 766 (National Poisons Centre)

Date of SDS Preparation: 08 January 2025

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

**EPA Approval No: Veterinary Medicines (Non-dispersive Open System Application)
 Group Standard – HSR100759**

Pictograms



Signal Word: **WARNING**

GHS Category	Hazard Code	Hazard Statement
Serious eye damage/eye irritation Cat. 2	H319	Causes serious eye irritation

Prevention Code	Prevention Statement
P264	Wash hands thoroughly after handling
P280	Wear protective clothing as detailed in Section 8

Response Code	Response Statement
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313	If eye irritation persists: Get medical advice/attention

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Flavophospholipol	4%	11015-37-5
Calcium carbonate	q.s 100%	471-34-1

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.
If on Skin	Wash with plenty of soap and water.
If Swallowed	Call a POISON CENTER or doctor/physician if you feel unwell.
If Inhaled	Avoid breathing dust. In the event of symptoms, seek medical treatment.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion:	None known
Inhalation:	Coughing, shortness of breath, breathing difficulty
Skin:	None known
Eye:	Irritation, lacrimation

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from combustion products	When heated to decomposition toxic fumes may be emitted
Suitable Extinguishing media	Water spray, dry powder, carbon dioxide, or foam
Precautions for firefighters and special protective clothing	Wear full protective clothing and self-contained breathing apparatus (SCBA)
HAZCHEM CODE	Not known

Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel.

Restrict access to contaminated area. Prevent further spillage, and prevent spilled material from flowing onto adjacent land or into waterways. Retrieve intact containers from site. Place damaged containers into containment devices. In case of spillage, contain the dry material by sweeping or vacuuming. Vacuuming may disperse dust if appropriate dust collection filter is not part of the vacuum. Be aware of potential for dust explosion when using electrical equipment. If vacuum is not available, lightly mist material and remove by sweeping or wet wiping. Clean the contaminated area with new polyurethane sponge, soaked in water. Place the spillage in a container for waste disposal. Avoid contamination of water courses or sewers.

Dispose of waste according to the applicable local and national regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use
- Avoid breathing dust
- Wear protective gloves. Avoid contact with skin and eyes
- In case of inadequate ventilation wear respiratory protection
- Contaminated work clothing should not be allowed out of the workplace
- Wash hands and exposed skin before meals and after use
- Do not eat, drink or smoke while using

Precautions for Storage:

- Store away from incompatible materials listed in Section 10
- Store below 25°C
- Store in the original container, away from direct heat or direct sunlight and away from foodstuffs
- Keep out of reach of children

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

No ingredient has a known exposure standard.

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APR 2022 13TH EDITION.

Engineering Controls

Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or fumes.

Personal Protection Equipment



Eyes	Safety glasses or goggles
Hands	Wear impervious gloves if skin contact is possible
Skin	Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas
Respiratory	Wear suitable respiratory equipment such as anti-dust mask (respirator) or local respiratory system
General	Do not eat, drink or smoke when using this product. Wash hands with soap and water before breaks and after work. Keep away from foodstuffs and beverages

Section 9 Physical and Chemical Properties

Appearance	Granules
Colour	Beige to dark brown

Odour	Specific
Odour Threshold	Not available
pH	6.0 – 9.5
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	Not available
Water Solubility	Soluble in water, methanol; sparingly soluble in ethanol, propanol; slightly soluble in ether, ethyl acetate; insoluble in benzene, chloroform
Partition Coefficient:	Not available
Auto-ignition Temperature	From 180°C
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions
Possibility of hazardous reactions	Hazardous polymerisation does not occur
Conditions to Avoid	Avoid heat, light and moisture
Incompatible Materials	Not available
Hazardous Decomposition Products	Not available

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable
Dermal	Not applicable
Inhalation	Not applicable
Eye	Causes moderate eye irritation**
Skin	Not applicable

Chronic Effects:

Carcinogenicity	Not applicable
Reproductive Toxicity	Not applicable
Germ Cell Mutagenicity	Not applicable
Aspiration	Not applicable
STOT/SE	Not applicable
STOT/RE	Not applicable

Product information (Flavomycin 40):

Acute Toxicity:

Oral – LD ₅₀	Dermal – LD ₅₀	Inhalation – LC ₅₀
>2,000 mg/kg (albino mice)* >2,000 mg/kg (albino rats)	>1,000 mg/kg (rat)**	>2943.4 mg/m ³ (rat)**

*calculated from results of investigations with Flavomycin 80 containing 8% flavophospholipol activity

**calculated from results of investigations with Flavomycin 20 containing 2% flavophospholipol activity

Section 12 Ecotoxicological Information

Flavomycin 40 is not classified as ecotoxic.

Product:	
Persistence and degradability	Log Pow <1
Bioaccumulation	Flavophospholipol is rapidly degraded in soil to microbiologically inactive materials
Mobility in Soil	The established Freundlich soil adsorption constants demonstrated that [14C]-flavophospholipol had potential to adsorb to each under the soils under investigation, which adsorption was deemed partially reversible
Other adverse effects	No data available

Route	Species	Duration	Value LC ₅₀ /EC ₅₀
Acute aquatic, fish	Golden orfe	96 hr	1196 mg/L*
Acute aquatic, Crustacean	Daphnia magna	48 hr	868 mg/L*
Acute aquatic, algae	Algae	72 h (growth)	410 mg/L*
		72 h (rate)	>1280 mg/L*

- Earthworm 14-day LC₅₀ >2,000 mg/kg*
- Phytotoxicity – 3 species (wheat, radish, mung bean)
 - LC₅₀ (emergence) >200 mg/kg*
 - EC₅₀ (growth rate) >200 mg/kg*
- Soil microflora: no effect on soil respiration or nitrification when applied at rate of 1mg flavophospholipol per kg oven dry soil environment

*calculated from results of investigations with Flavomycin 80 containing 8% flavophospholipol activity

Section 13. Disposal Considerations**Disposal Method:**

Preferably dispose of the product by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility.

Precautions or methods to avoid: Avoid contamination of any water supply with product or empty container.

Section 14 Transport Information

This product is not classified as a Dangerous Good for transport in NZ; NZS 5433:2020

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR100759

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities (Schedule 26)	Not required
Signage Trigger Quantities (Schedule 3)	Not required
Emergency Response Plan (Schedule 5)	Not required

Secondary Containment (Schedule 5)	Not required
Restriction of Use	Only use for the intended purpose
ACVM Act and Regulations	
See www.foodsafety.govt.nz for registration Conditions	A10503

Section 16 Other Information

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices April 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by AgriHealth NZ Ltd and serves as the Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to AgriHealth NZ Ltd by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from AgriHealth NZ Ltd. While AgriHealth NZ Ltd have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, AgriHealth NZ Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, if further information is required.

Issue Date: 08 January 2025 Review Date: 08 January 2030