

Preparation: February 2025 Date of first issue: February 2025 Revision date: February 2025 Next revision: February 2026 Version it replaces: Not applicable	SAFETY DATA SHEET (SDS) DILONG® Botanical-Hybrid Insecticide	
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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier.

Product name: DILONG® Botanical-Hybrid Insecticide

Active ingredient name: Tagetes erecta extract (Marigold), Chenopodium album extract, Jatropha dioica extract, Argemone mexicana extract, Capsicum oleoresins, Emamectin benzoate

1.2 Identified uses of the substance or mixture.

Use: Botanical-Hybrid agricultural insecticide

1.3 Manufacturer or supplier's details

Company name of supplier: AGRICULTURA NACIONAL, S.A. DE C.V.
 Av. Periférico Sur 3325, Piso 3, Col. San Jerónimo Lídice,
 P.O. Box 10200, La Magdalena Contreras, México City
 Telephone: (55) 5089-1500 or 01-800-0211-568

Emergency telephone number: 800-00-214-00
 (55) 55-59-15-88

Poison Control Center (ATOX): 800 000 ATOX (2869).

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture: Not considered a hazardous product.

Classification according to NOM-018-STPS-2015:

Acute oral toxicity H303	Category 5 May be harmful if swallowed
Acute dermal toxicity H313	Category 5 May be harmful in contact with skin
Acute inhalation toxicity H333	Category 5 May be harmful if inhaled

2.2 GHS label elements, including precautionary statements:

Labeling according to NOM-018-STPS-2015.

Components determining the hazard for labeling:

Symbol
 No pictogram

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Signal word: WARNING

Hazard statements:

H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H333	May be harmful if inhaled

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, sparks, open flames, hot surfaces, and other ignition sources.
P233	Keep container tightly closed.
P234	Keep only in original container.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gear for face and eyes.
P301+P330	If swallowed, rinse mouth.
P302+P352	If on skin, wash with plenty of water.
P304+P340	If inhaled, remove person to fresh air and keep comfortable for breathing.
P305+P351	If in eyes, rinse cautiously with water for several minutes.
P306+P360	If on clothing, rinse contaminated clothing and skin immediately with plenty of water before removing clothes.
P370+P376	In case of fire, stop leak if safe to do so.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P410	Protect from sunlight.
P411	Store at a temperature not exceeding 25°C.
P501	Dispose of contents and container in accordance with established local regulation.

2.3 Other hazards which do not result in classification.

None identified

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Formulation components:

Substance / Component	CAS Number	Concentration (% w/w)
Tagetes erecta extract	N/A	10.00
Chenopodium album extract	N/A	10.00
Jatropha dioica extract	N/A	25.00

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Argemone mexicana extract	N/A	20.00
Capsicum oleoresins	N/A	2.00
Emamectin benzoate	N/A	2400 ppm
Conditioners and diluents	—	32.76

Other data:

No information available.

N/A: Not applicable

N/D: Not data available

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice	Move the affected person to fresh air and keep warm and at rest. Obtain immediate medical attention. Provide the SDS and product label to medical personnel.
Inhalation	Move to fresh air. If symptoms persist, seek medical advice.
Skin contact	Wash thoroughly with soap and water. Remove contaminated clothing.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.
Ingestion	Rinse mouth and drink plenty of water. Do not induce vomiting unless directed by medical personnel.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	Eyes: May cause irritation.
	Skin: May cause irritation.
	Inhalation: May cause respiratory tract irritation.
	Ingestion: May cause intestinal spasms, diarrhea, nausea, vomiting, and stomach upset.
	Aggravated by overexposure: May cause hypersensitivity.

4.3 Indication of any immediate medical attention and special treatment needed

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Antidote and treatment	Treat symptomatically. Consult a physician in all cases. In case of ingestion, provide the Safety Data Sheet and product label to the physician.
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SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media.

Suitable	Use any convenient means to extinguish the fire such as CO ₂ , water, chemical powder, foam, and others.
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5.2 Specific hazards arising from the substance or mixture

Fire measures: Not considered a flammable product.

Fire/flammability risk of the product: Not flammable.

Flash point: N/A.

Flammable limits: Not considered flammable.

Combustion products: N/D.

Fire risk with other substances: No risk of ignition when in contact with any known substance, but it should not be mixed with any flammable substance.

Explosion hazard: Not considered a flammable product.

Static discharge explosion risk: No risk of explosion from static discharge.

Mechanical impact fire risk: No risk of explosion from mechanical impact. Upon burning, it produces fumes slightly toxic to the environment.

5.3 Advice for firefighters

Special protective equipment for firefighters	Use firefighting gear.
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Additional information	Evacuate personnel and stay upwind of the fire.
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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures.

Precautions for safe handling	Use safety glasses. Use appropriate personal protective equipment (full coveralls). Use plastic gloves. Use safety shoes. Use a dust mask or safety mask.
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6.2 Environmental precautions

It does not produce any effect on the environment. Upon burning, it produces fumes slightly toxic to the environment.

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6.3 Methods and material for containment and cleaning up

Cleaning methods

Use absorbent material, wash with water and detergent, and disinfect the area.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice for safe handling

Store the product in cool, covered, and ventilated places. Keep out of reach of children and away from contact with animals or food.

7.2 Conditions for safe storage, including any incompatibilities

Technical requirements for warehouses and containers

Store the product in cool, covered, and ventilated places. Keep out of reach of children and away from contact with animals or food.

Instructions for joint storage

DILONG® Botanical-Hybrid Insecticide is not compatible with chemical or botanical fungicides, as well as sulfurs, coppers, and other fungistats. It is compatible with biostimulants, foliar fertilizers, and synthetic adjuvants. However, it is suggested to perform tests before making the final mixture.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

N/D

8.2 Exposure controls

Personal Protection

Under normal conditions of use and handling, refer to the label and/or leaflet instructions. In all other cases, the following recommendations should be applied.

Respiratory protection

Use a dust mask or safety mask.

Hand protection

Use plastic gloves.

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Eye protection	Use safety glasses.
Skin and body protection	Use appropriate personal protective equipment (full coveralls). Use safety shoes.
General protection and hygiene measures	Clean and maintain personal protective equipment according to the manufacturer's instructions. Store and wash personal protective equipment separately from other clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties

Appearance	Orange Liquid
Odor	Slightly irritating
pH	5.5–7.0
Solubility:	Soluble in water
Flammability	Non-flammable
Vapor pressure	Not determined
Relative density	0.975–1.000 g/mL
Flash point	Not determined
Viscosity	Not determined
9.2 Other information	Not determined

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal environmental conditions and not considered reactive.
10.2 Chemical stability	Becomes unstable at temperatures above 45°C.
10.3 Possibility of hazardous reactions	It is compatible with most agrochemicals; however, it is suggested to perform tests before making the final mixture. Polymerization hazard: Does not polymerize.
10.4 Conditions to avoid	Do not store above 45°C.
10.5 Incompatible materials	Not compatible with chemical or botanical fungicides, as well as sulfurs, coppers, and other fungistats. It is compatible with biostimulants, foliar fertilizers, and synthetic adjuvants. However, it is suggested to perform tests before making the final mixture.

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10.6 Hazardous decomposition products

The product tends to decompose if not stored properly, outside the indicated temperature conditions above 45°C.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	DL ₅₀ > 2000 mg/kg
Acute dermal toxicity	DL ₅₀ > 2000 mg/kg
Acute inhalation toxicity	N/D
Skin irritation	N/D
Eye irritation	N/D
Sensitization	N/D

Chronic toxicity/Effects

Symptoms	Review SECTION 4.2.
Mutagenicity	Has no mutagenic effects
Neurological effects	N/D
Reproductive toxicity	Not known to cause any problems in the reproductive system.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	N/D
Toxicity to invertebrates	N/D
Toxicity to aquatic plants	N/D

12.2 Persistence and degradability

Biodegradability	Biodegradable
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12.3 Bioaccumulative potential

Bioaccumulation	Low
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12.4 Mobility in soil

Mobility in soil	No data available
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12.5 Other adverse effects

Additional ecological information	None known
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SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Disposal of the substance (residues):

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Dispose of product and packaging according to local, regional, and international regulations. Triple-rinse empty containers and add rinse water to the spray tank. Do not contaminate waterways or soil.

SECTION 14. TRANSPORT INFORMATION

According to NOM-002-SCT/2011

14.1 UN number	Not regulated as a hazardous product.
14.2 UN proper shipping name	N/A
14.3 Transport hazard class	Not classified as hazardous under DOT, IMDG, or IATA. Packing group: Not applicable.
14.4 Packing group	Not applicable
14.5 Environmentally hazardous mark	Not environmentally hazardous.
14.6 Hazard identification number	None required

SECTION 15. REGULATORY INFORMATION (MEXICO)

Complies with OSHA Hazard Communication Standard (29 CFR 1910.1200), EU CLP Regulation (EC) No 1272/2008, and NOM-018-STPS-2015.

This product is not classified as hazardous under GHS criteria.

Sanitary Registration: RSCO-MEZZ-INAC-01045-0551-096-26.15.

SECTION 16. OTHER INFORMATION

Text of the hazard statements mentioned in SECTION 2

The information provided in this SDS is correct to the best of our knowledge as of the issue date. It is intended to describe safety requirements for this product and should not be construed as a guarantee of specific properties.

Prepared by: Regulatory Affairs Department

Reviewed by: Quality and Safety Division

Date of issue: February 2025

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