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#### **SECTION 1. PRODUCT AND MANUFACTURER IDENTIFICATION**

1.1 Product Identification

Trade Name: HAKU

Name of the Active Ingredient: Oregano oil + Peppermint oil + Cinnamon oil + Clove oil +

Soybean oil + Neem oil + Fish oil

1.2 Identified uses of the substance or mixture

Use: Acaricide

1.3 Distributor information

Company: AGRICULTURA NACIONAL, S.A. DE C.V

Av. Periférico Sur 3325, Piso 3, Col San Jerónimo Lídice,

10210 La Magdalena Contreras, CDMX

Phone no.: (55) 5089-1500 or 01-800-0211-568

Telephone number in case of

emergency:

800-00-214-00 (55) 55-59-15-88

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

# **SECTION 2. HAZARD IDENTIFICATION**

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

Classification according to NOM-018-STPS-2015.

Acute toxicity by ingestion Category 5

H303 May be harmful if swallowed

Acute dermal toxicity Category 5

H313 May be harmful in contact with skin

2.2 GHS label elements, including precautionary phrases:

Labeling in accordance with NOM-018-STPS-2015.

Hazard-determining components for labeling:

Symbol (s)

No pictogram

Warning word: CAUTION

Hazard statements HAKU

	SAFETY DATA SHEET (SDS) HAKU	
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H303	May be harmful if swallowed.
H313	May be harmful in contact with skin

# Cautionary advice.

P101	If medical advice is needed: have the container and label of the product on 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 sources of ignition.	
P233	Keep container tightly closed.	
P234	Keep only in original container.	
P262	Avoid contact with the eyes, skin or clothing.	
P264	Wash hands thoroughly after handling.	
P271	Use only outdoors or in a ventilated area.	
P280	Wear protective equipment for face, eyes and skin.	
P301+P330	In case of ingestion, rinse mouth thoroughly.	
P302+P352	In case of skin contact, wash with plenty of water.	
P304+P340	In case of inhalation, move the victim outdoors and keep him/her in a position that makes breathing easier.	
P305+P351	In case of contact with the eyes, flush thoroughly with water for several minutes.	
P306+P360	In case of contact with clothing, immediately rinse contaminated clothing and skin with plenty of water before removing clothing.	
P370+P376	In case of fire, stop the leak if it can be done safely.	
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. Disposal:	
P501	Dispose of contents and container in accordance with local regulations.	

# 2.3 Other hazards that do not contribute to the classification.

No hazards identified

# **SECTION 3. COMPOSITION/INFORMATION ON COMPONENTS**

### 3.1 Mixtures

# Type of formulation

Emulsifiable liquid

# **Active ingredient**

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Oregano oil (*Lippia graveolens*), Peppermint oil (*Mentha piperita*), Cinnamon oil (*Cinnamomum zeylanicum*), Clove oil (*Syzygium aromaticum*), Soybean oil (*Glicine max*), Neem oil (*Azadirachta indica*), Fish oil (Makerel).

# Components of the formulation

NAME	CAS No.	CONCENTRATION
Oil of oregano ( <i>Lippia graveolens</i> )	84012-24-8	0.50% equivalent to 4.474 g/L
Peppermint oil ( <i>Mentha piperita</i> )	8006-90-4	1% equivalent to 8.948 g/L
Cinnamon oil (Cinnamomum zeylanicum)	8015-91-6	1.50% equivalent to 13.422 g/L
Clove oil (Syzygium aromaticum)	8000-34-8	1.00% equivalent to 8.948 g/L
Soybean oil ( <i>Glicine max</i> )	8001-22-7	4.50% equivalent to 40.266 g/L
Neem Oil (Azadirachta indica)	8007-80-5	6.50% equivalent to 58.162 g/L
Fish oil ( <i>Makerel</i> )	8001-25-0	15.00 equivalent to 134.22 g/L

# Other information.

No information available.

N/A: Not Applicable N/D: Not Available

### **SECTION 4. FIRST AID**

#### 4.1 Description of first aid

Remove the victim from the source of exposure by placing him/her in a well ventilated area and keeping him/her warm. Seek

immediate medical attention. Keep patient warm and at rest.

Remove the victim to a ventilated place.

Inhalation

Contact with the skin Wash with plenty of water

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Contact with the eyes Wash with plenty of water

Induce vomiting immediately and get the victim to drink plenty of

water. Provide medical assistance for any complications that may

arise.

### 4.2 Main symptoms and acute and chronic effects

Ingestion

**Eyes**: May cause irritation. **Skin**: May cause irritation.

Signs and Symptoms Inhalation: May cause respiratory tract irritation.

Ingestion: May cause intestinal spasms, diarrhea, nausea, vomiting and

abdominal pain.

Aggravated by overexposure: May cause hypersensitivity.

#### 4.3 Instructions for any medical care and special treatment to be administered immediately.

Symptomatic treatment. Consult a physician in all cases.

Antidote and treatment In case of ingestion give the Safety Data Sheet and the product label to the

physician.

# SECCIÓN 5. FIRE SAFETY MEASURES

### 5.1 Extinguishing agents.

**Suitable** Use any convenient means to extinguish the fire such as CO2, water,

chemical powder, foam and others.

# 5.2 Specific hazards arising from the substance or mixture

Fire protection measures: Not considered flammable. Fire hazard, flammability of the product: Not flammable.

Flash point: N/A.

Flammable limits: Not considered flammable.

Products of combustion: N/A.

Fire hazard present with other substances: No ignition hazard when in contact with any known

substance but should not be mixed with any flammable substance.

Explosion hazard: Not considered a flammable product.

**Explosion hazard due to static discharge:** No risk of explosion due to static discharge.

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**Risk of fire due to mechanical impact:** No risk of explosion due to mechanical impact. On ignition it produces fumes that are slightly toxic to the environment.

### 5.3 Recommendations for firefighting personnel

Special protective equipment for

firefighting personnel

Use firefighting equipment

Additional information

Evacuate personnel and move away from the path of the fire.

N/A: Not Applicable N/D: Not Available

### SECTION 6. CONTROL MEASURES IN CASE OF ACCIDENTAL SPILLS OR LEAKS

# 6.1 Personal precautions, protective equipment and emergency procedures

Safe handling precautions

Wear safety glasses. Wear appropriate personal protective equipment (full coverall). Use plastic gloves. Wear safety shoes.

Wear a face shield or safety mask.

### 6.2 Environmental precautions

Does not produce any effect on the environment. When ignited it produces fumes that are slightly toxic to the environment

### 6.3 Containment and cleaning methods and materials

Cleaning methods

Use absorbent material, wash with water and detergent and

disinfect the area.

### **SECTION 7. HANDLING AND STORAGE**

# 7.1 Safe handling precautions

Safe handling recommendations

Store the product in a cool, sheltered and ventilated place, keep out of reach of children and do not allow it to come into contact

with animals or food.

# 7.2 Conditions for safe storage, including possible incompatibilities

Technical requirements for storerooms and containers

Store the product in cool, covered and ventilated places, do not leave within reach of children and do not allow it to come into contact with animals or food.

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Information for joint storage

HAKU is not compatible with chemical or botanical fungicides, sulfur, copper and other fungistatic agents. It is compatible with biostimulants, foliar fertilizers and synthetic coadjuvants. Nevertheless, it is advisable to run tests before performing the final mix.

### **SECTION 8. EXPOSURE CONTROLS/INDIVIDUAL PROTECTION**

### 8.1 Control parameters

N/D

### 8.2 Exposure controls

#### **Personal Protection**

In normal usage and handling conditions refer to the instructions on the label and/or package label. In all other cases the following recommendations should be applied.

Respiratory protection Use a face mask or safety mask.

Protection for the hands Use plastic gloves.

Eye protection Wear safety glasses.

Wear appropriate personal protective equipment (full coverall). Skin and body protection

Wear safety shoes.

General protective and hygienic

measures

Clean and maintain personal protective equipment according to the manufacturer's instructions. Store and wash personal

protective equipment separately from other clothing.

N/A: Not Applicable N/D: Not Available

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1 Essential physical and chemical properties

Shape Emulsifiable liquid Color Orange to red

Odor Irritant 4.8-6.5 pН **Flammability** N/A Vapour pressure N/D

Relative density 0.940-0.975 g/ml

Solubility in water Yes

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Flash point N/D Viscosity N/D

#### 9.2 Other information

N/D

N/A: Not Applicable N/D: Not Available

# **SECTION 10. STABILITY AND REACTIVITY**

10.1 Reactivity Stable under normal environmental conditions and is not

considered reactive.

**10.2 Chemical stability** Becomes unstable at temperatures higher than 45°C.

10.3 Possibility of harmful Compatible with most agrochemicals; however, testing is

suggested before final mixing. Polymerization hazard:

Does not polymerize.

**10.4 Conditions to avoid** Do not store at temperatures higher than 45°C.

sulfur, copper and other fungistatics. It is compatible with biostimulants, foliar fertilizers and synthetic coadjuvants. However, it is suggested to make tests before making the

final mixture.

10.6 Hazardous decomposition

products

reactions

The product tends to decompose if it is not stored properly

or at temperatures higher than 45°C (113°F).

### **SECTION 11. TOXICOLOGICAL INFORMATION**

### 11.1 Information on toxicological effects

 Acute oral toxicity
 N/A

 Acute inhalation toxicity
 N/D

 Acute dermal toxicity
 N/D

 Skin irritation (rabbit)
 N/D

 Eye irritation (rabbit)
 N/D

 Sensitization (guinea pig)
 N/D

### **Chronic Toxicity/Effects**

**Symptoms** See section 4.2. **Mutagenicity** No mutagenic effects

Neurological effects N/A

**Reproductive Toxicity**Not known to cause reproductive system problems.

N/A: Not Applicable N/D: Not Available

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# SECCIÓN 12. INFORMACIÓN ECOTOXICOLÓGICA

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 N/A

12.3 Bio-accumulation potential

Bioaccumulation N/D

12.4 Mobility in soil

Mobility in soil N/D

12.5 Other adverse effects

Additional ecological

information No effect on the environment

N/A: Not Applicable N/D: Not Available

#### **SECTION 13. DISPOSAL INFORMATION**

### 13.1 Disposal of the substance (waste):

During product handling, avoid washing or pouring product residues or empty containers into soil, rivers, lagoons, streams, dams, canals or water reservoirs to prevent contamination.

Handle empty containers and product residues in accordance with the provisions of the General Law for the Prevention and Integral Management of Waste, its Regulations or the Empty Container Management Plan, registered with SEMARNAT.

In case of spills, wear personal protective equipment and recover the spilled product with some absorbent material (e.g., earth or clay), collect the waste in an airtight container and take it to the nearest authorized hazardous waste collection center. Triple wash the empty container and pour the rinsing water into the tank or container where the application mixture is prepared.

#### **SECTION 14. TRANSPORTATION INFORMATION**

# In accordance with NOM-002-SCT/2011

14.3 Transport hazard class(es)

**14.1 UN Number**Not regulated as a hazardous product

14.2 Official Transport Designation of the

United Nations

N/A

Ground Transportation DOT: This product is not classified as hazardous for transport. Maritime Transportation IMDG: This product is not classified as

dangerous for transport. Air Transportation ICAO/IATA: This product is not classified as hazardous for

transport.

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14.4 Packaging group

14.5 Environmental hazard label

14.6 Hazard identification number.

N/D

Not considered a hazardous substance.

N/A

N/A: Not Applicable N/D: Not Available

### **SECTION 15. REGULATORY INFORMATION (MEXICO)**

NOM-232-SSA1-2009. Pesticides: Establishing the requirements for packaging, packing and labeling of technical grade products for agricultural, forestry, livestock, gardening, urban, industrial and domestic use. NOM-002-SCT/2011: List of most commonly transported hazardous substances and materials. NOM-018-STPS-2015, Harmonized system for the identification and communication of hazards and risks from hazardous chemicals in the workplace.

#### **SECTION 16. OTHER INFORMATION**

#### Text of the hazard statements mentioned in Section 2

- The information is believed to be correct, but it is not comprehensive and is to be used only as a reference, which is based on the current knowledge of the chemical or mixture and is applicable to the appropriate safety precautions for the product.
- Considering that the use of this information and the products is beyond the manufacturer's control, the company assumes no liability in this regard. Determining the conditions of safe use of the product is the obligation of the user.

N/A: Not Applicable N/D: Not Available