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SECTION 1. PRODUCT AND MANUFACTURER IDENTIFICATION

1.1 Product Identification

Trade Name: AGROSHIELD

Name of the Active Ingredient: Hydrogen tetraoxophosphate (V): phosphoric acid

1.2 Identified uses of the substance or mixture

Use: Insecticide/ Acaricide for agricultural use

1.3 Supplier or manufacturer data.

AGRICULTURA NACIONAL, S.A. DE C.V

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

Company: 10210 La Magdalena Contreras, CDMX

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

1.4 Número de teléfono en caso de

emergencia en el transporte: 800 00 214 00

(ANIQ-SETIQ) 24 hrs (55) 5559 1588

Poison Care Center (ATOX): 800 000 2869

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to NOM-018-STPS-2015.

Acute oral toxicity Category 4

H302 Harmful if swallowed

Acute Inhalation Toxicity Category 5

H333 May be harmful if inhaled

Acute Dermal Toxicity Category 5

H313 May be harmful in contact with skin

Skin Corrosion/ Irritation Category 2

H315 Causes skin irritation

2.2 GHS label elements, including precautionary phrases:

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

Hazard-determining components for labeling:

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Symbol(s)



Warning word: WARNING

Hazard statements

H302 Harmful if swallowed H333 May be harmful if inhaled H313 May be harmful in contact with skin

Causes skin irritation H315

Cautionary advice.

P261 Avoid breathing dust, fumes/gas/mist/mist/vapours/spray.

P271 Use only outdoors or in a well ventilated area.

Do not release into the environment. P273

Wear protective gloves/protective clothing/eye/face protection. P280

P304 + P340 IN CASE OF INHALATION: Remove victim to fresh air and keep at rest in a

position that makes breathing easier.

P312 Call a POISON CENTER or doctor if the victim feels unwell.

In case of fire: Use (See section 5.1 of this SDS) to extinguish. P370 + P378

P391 Collect any spillage.

P403 Store in a well ventilated area.

P403 + P233 Store in a well-ventilated area. Keep container tightly closed.

P405 Keep in a locked storage area.

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

2.3 Other hazards not contributing to the classification.

No hazards identified

SECTION 3. COMPOSITION/INFORMATION ON COMPONENTS

Type of formulation: Aqueous solution

Active ingredient: Hydrogen tetraoxophosphate (V): phosphoric acid

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Hazardous components

NAME	CAS No.	CONCENTRATION
Hydrogen tetraoxophosphate (V): phosphoric acid	7664-38-2	10%; equivalent to 106.83g/L

Other information.

No information available.

SECTION 4. FIRST AID

Inhalation

4.1 Description of first aid

	Remove the victim from the source of exposure by placing him/
General recommendation	her in a well ventilated area and keeping him/her warm. Seek
	immediate medical attention. Keen the nationt warm and at rest

immediate medical attention. Keep the patient warm and at rest.

Make sure the victim is breathing without difficulty. If unable to breathe, remove secretions and foreign bodies from airways and provide mouth-to-mouth resuscitation using a cloth as a barrier

and transport immediately to the nearest medical facility.

Wash the affected area with soap and clean water and remove Contact with the skin

contaminated clothing from the victim.

Wash for at least 15 minutes with clean water. Contact with the eyes

If the product has been swallowed, do not induce vomiting; if necessary, only a physician can do so by inserting a finger down Ingestion

the throat or administering warm salt water. If the person is unconscious, make sure that he/she can breathe without difficulty; and do not try to introduce anything into his/her mouth.

4.2 Main symptoms and acute and chronic effects

and runny nose, sudden respiratory distress, inflammation of the mouth and larynx, allergic pulmonary reaction, tingling sensation and numbness of the tongue, lip and Signs and Symptoms eyelids, rarely tremors and difficulty in walking. Low blood pressure or hypotension, tachycardia with the sensation of

palpitations, dizziness or loss of consciousness may occur.

By inhalation: Causes allergic rhinitis, nasal congestion

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Oral route: it is rapidly absorbed and depending on the quantity absorbed, in addition to the above symptoms, it also causes alterations to the central and peripheral nervous system.

Dermal route. Rash, numbness, burning and tingling (generally resolves after 12 hours).

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

Antidote and treatment

Wash the patient with plenty of soap and water. Treat asthma or anaphylaxis with adrenaline at a ratio of 1:1000 by administering 0.1 to 0.5 ml I.M. or very slow I.V.; repeat if necessary. Administer hydrocortisone or equivalent: 50 to 100 mg I.V. Manage rhinitis orally with antihistamines and decongestants. In case of ingestion, pump the stomach, administer activated charcoal 30-50 g in 200 ml of water, followed by 15 g of sodium sulfate dissolved in water as a cathartic; repeat the administration of activated charcoal every 6 hours and the sodium sulfate every 12 hours, for 24 to 48 hours depending on the amount of toxic substance ingested. Treat nervous system symptoms with diazepam 5-10 mg in adults and 0.1 mg/kg in children.

SECCIÓN 5. FIRE SAFETY MEASURES

5.1 Extinguishing agents.

Suitable

Alcohol-resistant foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

5.2 Specific hazards arising from the mixture

Toxic carbon monoxide, carbon dioxide, hydrogen cyanide and hydrogen bromide based fumes.

5.3 Recommendations for fire-fighting personnel

Special protective equipment for

firefighting personnel

Qualified personnel should enter the affected area wearing special firefighting clothing, self-contained breathing apparatus

and safety glasses with lateral shielding.

Additional information No information available

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

6.1 Personal precautions, protective equipment and emergency procedures

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Safe handling precautions

Keep people away from the leakage area and upwind of the product. Avoid contact with spilled products or contaminated surfaces. Do not eat, drink or smoke during spill clean-up. Keep away from heat and ignition sources.

6.2 Environmental Precautions

Do not allow product to enter surface water, sewage system and ground water. Avoid discharge into the environment.

6.3 Containment and clean-up methods and material

Cleaning methods

Collect with an inert absorbent product (e.g. sand, diatomite, acid fixative, universal fixative, sawdust). Store in appropriate closed containers for disposal. Dispose of product or waste in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

7.1 Safe handling precautions

Safe handling recommendations

Avoid contact with the eyes and skin. Avoid breathing fumes or

mists. Ensure adequate ventilation.

7.2 Conditions for safe storage, including possible incompatibilities

Technical requirements for storerooms and containers

Keep container closed, in a dry, cool and well-ventilated place.

Open and handle container with care.

Information for joint

storage

Store the product in a cool, dry and well-ventilated place. Do not contaminate water sources, other pesticides, fertilizers or food

during storage. Keep out of reach of children.

SECTION 8. EXPOSURE CONTROLS/INDIVIDUAL PROTECTION

8.1 Control parameters

COMPONENTS	CAS No.	PARAMETROS DE CONTROL	CURRENT	BASELINE
Hydrogen tetraoxophosphate	7664-38-2	No information	-	-

8.2 Individual protection measures, such as personal protective equipment

Personal protection

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

Respiratory protection

When respiratory equipment is required, select NIOSH approved equipment based on actual or potential airborne contaminant concentrations and in accordance with appropriate regulatory

standards and/or industry recommendations.

Protection of the hands

Handle with chemical resistant gloves. Gloves should be inspected prior to use. Use proper glove removal technique (without touching the outer surface of the glove) to avoid skin

contact with this product. Wash and dry hands.

Protection of the eyes

Safety glasses with side shields conforming to EN166 Wear eye protection equipment tested and approved to appropriate government standards such as NIOSH (USA) or EN 166 (EU).

Skin and body protection

Full chemical protective suit, coveralls, gloves, protective eyewear, closed shoes, socks. The type of protective equipment should be chosen according to the concentration and amount of

hazardous substance at the specific workplace.

General protective and hygienic measures

Clean and maintain all personal protective equipment according to the manufacturer's instructions. Store and wash personal protective equipment separately from other clothing.

SECCIÓN 9. PROPIEDADES FÍSICAS Y QUÍMICAS

9.1 Propiedades físicas y químicas básicas

Shape Liquid

Color No information available Odor No information available pН No information available Specific gravity (20°C) No information available

Solubility in water High

Flash point No information available Viscosity, dynamic No information available Other information No information available

SECTION 10. STABILITY AND REACTIVITY

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10.1 Reactivity Soluble in water with minor release of heat.

10.2 Chemical stability Hygroscopic. Soluble in water. Reacts with water to

generate heat and phosphoric acid, the reaction is not

violent.

10.3 Possibility of hazardous

reactions

No information available.

10.4 Conditions to avoid High temperatures, storage where the product is exposed

to direct sunlight.

10.5 Incompatible materials No information available.

10.6 Hazardous decomposition

products

In case of fire, toxic fumes may be formed, based on carbon monoxide, carbon dioxide, hydrogen cyanide and

hydrogen bromide.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicityDL50 (rat): 1530 mg/KgAcute inhalation toxicityCL50(rat) > 850 mg/LAcute dermal toxicityDL50 (rabbit) >2740 mg/Kg

Skin irritation (rabbit) Irritant
Eye irritation (rabbit) Irritant

Skin sensitization (guinea pig) Non-sensitizing

Chronic Toxicity/Effects

Symptoms See section 4.2

CarcinogenicityNo carcinogenic effects NoMutagenicitymutagenic effectsNeurological effectsNo neurotoxic effectsReproductive toxicityNo risk has been proven

SECTION 12. ECOTOXICOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish CL_{50} - (*Oncorhynchus mykiss*) Rainbow trout - 96h = 87 mg/L.

Toxicity to aquatic invertebrates $CE_{50} - (Daphnia magna)$ Large sea flea - 48h = 105 mg/L

Toxicity to aquatic plantsNo information available

12.2 Persistence and degradability

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Biodegradability Not persistent

12.3 Bio-accumulation potential

Bioaccumulation There is risk of bioaccumulation

12.4 Mobility in soil

Mobility in soil Not expected to be mobile in the soil

12.5 Other adverse effects

Additional ecological No information available

information

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.

SECTION 14. TRANSPORTATION INFORMATION

In accordance with NOM-002-SCT/2011

63 1805

14.1 UN Number 1805

14.2 Official Transport Designation of the United

Nations

PHOSPHORIC ACID SOLUTION

14.3 Transport hazard class(es) 6.1

14.4 Packaging group

14.5 Environmental hazard label YES

14.6 Hazard identification number

SECTION 15. REGULATORY INFORMATION (MEXICO)

NOM-010-STPS-2014, Chemical pollutants in the workplace-Recognition, evaluation and control. NOM-018-STPS-2015, Harmonized system for the identification and communication of hazards and risks from hazardous chemicals in the workplace.

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NOM-232-SSA1-2009, Pesticides: Establishing the requirements for the packaging, packing and labeling of technical grade products for agricultural, forestry, livestock, gardening, urban, industrial and domestic use. NOM-002-SCT/2011, List of the most commonly transported hazardous substances and materials.

SECTION 16. OTHER INFORMATION

Text of the hazard statements mentioned in Section 2