SAFETY DATA SHEET (SDS) ADHEL

SECTION 1. PRODUCT AND MANUFACTURER IDENTIFICATION.

## 1.1 Product Identification.

Trade Name	ADHEL®
Active Ingredient	Phosphoric Acid

# 1.2 Identified Uses

Usage Agricultural Adjuvant
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# 1.3 Manufacturer or supplier identification

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
Emergency contact:	800-00-214-00 (55) 55-59-15-88
Emergency number for poisonings	800 000 2869, Poison Control Center 24 hours a day, 365 days a year.

# **SECTION 2. HAZARD IDENTIFICATION**

## 2.1 Classification of the substance or mixture:

# Classification based on NOM-232-SSA1-2009333 and NON-018-2015

Acute oral toxicity	Category 5
H303	May be harmful if swallowed.
Acute inhalation toxicity	Category 4
H332	Harmful if inhaled
Acute dermal toxicity	Category 5
H313	May be harmful in case of contact with the skin
Skin irritation/ corrosion	Category 3
	Causes mild skin irritation
Eye irritation/ Corrosion	Category 2B
H320	Causes eye irritation

The information is believed to be correct, but it is not comprehensive and is to be used only as general information, which is based on current knowledge of the chemical or mixture and is applicable to the appropriate safety precautions for the product.

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# 2.2 Elements of GHS labels, including precautionary statements Symbol



Caption: Attention

## **Hazard Information**

H303	Harmful if swallowed
H332	Harmful if inhaled
H313 + H333	May be harmful in case of skin contact.
H320	Causes eye irritation

# Precautionary Advice.

P312	Call a poison control center or doctor if the person is unwell.
P264 P270 P280	Wash skin thoroughly after handling Do not eat, drink or smoke during use.
P304+P340	Wear protective gloves/ clothing/ goggles/ mask. In case of inhalation, remove the person to fresh air and keep him/her in a position that makes breathing easier
P273	Avoid release into the environment

# 2.3 Other hazards that do not contribute to the classification

No other hazards were identified

# **SECTION 3. INFORMATION ON THE COMPONENTS**

## 3.1 Mixture

Type of Formulation	Concentrated solution
Active Ingredient	Phosphoric Acid
Concentration	346.3 g/L

## Composition of the formulation

NAME	CAS No./EC No.	CONCENTRATION
Phosphoric Acid	7664-38-2	30.00 %

## Other information / No additional information to report

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# SECTION 4. FIRST AID

4.1 Description of first aid.

General Recommendation	Remove the intoxicated person from the source of exposure by placing him/her in a well ventilated area and keeping him/ her warm. Seek immediate medical attention. Keep the victim warm and resting.
Inhalation	Make sure that the intoxicated person is breathing easily. If not able to breathe, remove secretions and foreign bodies from the airway and provide mouth-to-mouth resuscitation using a cloth as a barrier and immediately transfer the patient to the nearest medical facility.
Contact with the skin	Wash the area of exposure with soap and clean water. Remove any contaminated clothing.
Contact with the eyes	Wash for at least 15 minutes with clean water. If wearing contact lenses, they should be removed as long as they are not stuck to the eyes, otherwise additional damage may occur. In all cases, after washing, seek medical advice as soon as possible using this safety data sheet.
Ingestion	If the product has been swallowed and the person is conscious, induce vomiting immediately by sticking a finger down the throat or by administrating warm salt water. If the person is unconscious make sure that he/she can breathe without difficulty, DO NOT INDUCE VOMITING IN AN UNCONSCIOUS PERSON and do not attempt to put anything in his/her mouth.

# 4.2 Main acute and chronic symptoms and effects

Signs and symptoms	<b>Ingestion</b> : Not determined. <b>Skin contact:</b> May cause irritation. <b>Eye contact:</b> Causes eye irritation. <b>Inhalation</b> : May cause irritation. <b>Ingestion</b> : Causes irritation of nose and throat.	
4.3 Indication of any medical atte dispersed immediately.	ention and special treatments that should be	
Antidote and treatment	There is no antidote and/or specific treatment for this product.	
SECTION 5. FIRE SAFETY MEASURES		
5.1 Fire Suppression Methods		
Suitable	Foam, CO2, dry chemical powder and water.	
5.2 Specific hazards arising from the substance or mixture	Not available	

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.3 Recommendations for firefight	ers		
Special protective equipment for firefighters.	Use a self-contained breathing apparatus for	firefighting.	
Additional Information	Keep away from the smoke. Move the product from the it can be safely done. Fight the fire in a direction. Water used for extinguishing should allowed to run freely into surface watercourses, nor be drained into sewage systems, contain extinguish with sand or soil. It should be collected and h CRETIB waste.	downwind 1 not be <sup>-</sup> should it ning water	
.1 Personal precautions, protectiv	ve equipment and emergency procedures.		
Precautions for safe handling.	Keep people away from the unlit area and upwind of the Avoid contact with spilled products or contaminated sur not eat, drink or smoke while cleaning up a spill. Keep a heat and sources of ignition. Wear full protective equipn during handling (see section 8).	faces. Do away from	
6.2 Environmental precautions	Avoid discharging the product into surface water, sewer	rs and	

## 6.3 Methods and material for containment and cleaning.

Cleaning methods Collect with inert absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust). Store in appropriate, closed containers for supply. Dispose of product and/or waste in accordance with local regulations.

ground water. Prevent release to the environment.

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

#### 7.1 Precautions for safe handling

Safe handling recommendations Avoid contact with the eyes and skin. Avoid inhaling fumes and dust. Provide adequate ventilation. Do not eat, drink or smoke during handling. Wear full protective equipment (see section 8), wash personal protective equipment according to the supplier's recommendations. Wash exposed areas of the body thoroughly after use.

7.2 Conditions for safe storage, including possible incompatibilities

Technical requirements	Keep container closed, in a dry, cool and well-ventilated place.
for warehouses and	Open and handle container with care.
containers	

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Indications 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 the storage of the product. Keep out of the reach of children.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters.

COMPONENTS	CAS No.	CONTROL PARAMETERS	CURRENT	BASE
Phosphoric acid	7664-38-2	Not available	Not available	Not available

\*OES BCS: Internal occupational exposure limit values

## 8.2 Exposure controls

## **Personal protection**

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

Respiratory protection	The use of respirators for fumes and mists is recommended. The type of respirator will depend on the level of contaminant present in the work area.
Protection of the hands	Wear chemical resistant gloves, approved gloves should be used in accordance with applicable governmental standards.
Protection of the eyes	Wear safety glasses tested and approved according to government agency standards.
Body and skin protection	Wear cotton or polyester/cotton coveralls and wear a chemical protective suit underneath.
General protection and hygiene measures	Clean and maintain personal protective equipment according to manufacturer's instructions. Store and wash personal protective equipment separately from other clothing.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Essential physical and chemical properties

Formulation	Concentrated solution
Color	Colorless
Odor	Odorless
pH	5-6
Vapor Pressure	no information available
Density	Approx. 0.949 g/ml 20 °C.

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Water solubility	>200g/L
Flash point	no information available
Dynamic viscosity	no information available
9.2 Other information	No other safety-relevant physicochemical data is known.

# SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	Stable
10.2 Chemical stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	No information available
10.4 Conditions to avoid	Sources of heat or ignition.
10.5 Incompatible materials	No information available
10.6 Hazardous decomposition products	Not Available

## SECTION 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute oral toxicity	LD <sub>50</sub> (rat) >2000 mg/kg	
Acute inhalation toxicity	$LC_{50}$ (rat) > 4 mg/L	
Acute dermal toxicity	LD <sub>50</sub> (rat) > 2000 mg/kg	
Skin irritation (rabbit)	may cause skin irritation	
Eye irritation (rabbit)	causes eye irritation	
Sensitization (guinea pig)	non-sensitizing	

# **Chronic Toxicity/Effects**

Symptoms	See section 4.2	
Mutagenicity	Non mutagenic	
Neurological effects	no information available	
Reproductive toxicity	no information available	

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SECTION 12. ECOTOXICOLOGICA	AL INFORMATION	
Toxicity in fish Toxicity in aquatic invertebrates	no information available no information available	

no information available

12.2 Persistence and degradability	
Biodegradability	no information available
12.3 Bioaccumulative potential	
Bioaccumulation	no information available
12.4 Mobility in soil	
Mobility in soil	no information available
12.5 Other adverse effects	
Supplementary ecological information	No further ecotoxicological information available

## SECTION 13. INFORMATION RELATED TO DISPOSAL

Toxicity in aquatic plants

## 13.1 Disposal of the substance (waste):

Dispose of contents/container in accordance with local regulations. Triple wash the empty container and pour the resulting rinsing water into the tank or container where you prepare the mixture for application. Handle the empty container and product residues in accordance with the provisions established in the General Law for the Prevention and Integral Management of Waste, its regulations, or the management plan for empty pesticide containers, registered with SEMARNAT.

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

## NOM (Ground transportation)

14.1 UN Number	3082
14.2 United Nations Transport Designation	Liquid substance, potentially hazardous to the environment.
14.3 Transport hazard class(es)	9
14.4 Types of packaging	Ш
14.5 Environmental hazard label	Yes

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SECTION 15. REGULATORY INFORMATION (MEXICO)

NOM-010-STPS-2014 NOM-018-STPS-2015

**SECTION 16. OTHER INFORMATION** 

Text of the hazard statements mentioned in Section 2