




	<b>CHEMICAL PRODUCT SAFETY DATA SHEET</b> <b>LEAD NITRATE UN 1469</b>		Code:	HSPN1469
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<b>SECTION I IDENTIFICATION OF THE HAZARDOUS CHEMICAL SUBSTANCE</b>		
<b>1) CHEMICAL NAME</b>	<b>2) OTHER MEANS OF IDENTIFICATION</b>	<b>3) RECOMMENDED USE OF THE SUBSTANCE</b>
Nitrato de plomo Lead Nitrate	Lead Nitrate II	INDUSTRIAL USE
<b>4) SUPPLIER OR MANUFACTURER DATA</b>		<b>5) SETIQ EMERGENCY NUMBERS</b>
AZINSA OXIDOS, S.A. DE C.V. FERNANDO MONTES DE OCA No. 21 EDIF. B P2, SAN NICOLÁS TLALNEPANTLA MÉXICO C.P. 54030.		55 59 15 88 (CDMX) 01 (800) 00 214 24 hours a day, 365 days a year. Provides technical and specific information by telephone to assist emergencies and incidents

<b>SECTION II HAZARD IDENTIFICATION</b>	
    	<b>1) CLASSIFICATION OF HAZARDOUS CHEMICAL SUBSTANCE OR MIXTURE</b> Acute toxicity, Category 4 Danger to the aquatic environment
	<b>2) ELEMENTS OF SIGNAGE, INCLUDING PRECAUTIONARY STATEMENTS AND CAUTION PICTOGRAMS</b>  <b>Identification:</b> Lead Nitrate <b>Warning word:</b> Peligro. <b>Hazard statements:</b> H302+H332- Harmful if swallowed or inhaled  H360Df- May harm the fetus. Suspected of damaging fertility.  H372- Damage to organs (blood, central nervous system, immune system, kidney) through prolonged or repeated exposure.  H410-Very toxic to aquatic organisms, with long-lasting harmful effects.  <b>Precautionary advice:</b>  P273-Do not disperse in the environment P281-Use mandatory personal protective equipment.  P301+P312- IF SWALLOWED: Call a POISON CENTER/doctor if the person feels unwell.  P304+P340-IF INHALED: Remove the person to fresh air and keep them in a position that facilitates breathing.  P405-Store under lock and key.

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<b>3) HAZARDS WHICH DO NOT CONTRIBUTE TO THE CLASSIFICATION</b>  There is no additional information	
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<b>SECTION III COMPOSITION / INFORMATION ON COMPONENTS</b>				
<b>IDENTIFICATION OF THE SUBSTANCE</b>	<b>CAS No.</b>	<b>%</b>	<b>ACGIH (TLV-TWA)</b>	<b>OSHA (PEL-TWA)</b>
Lead Nitrate (Pb(NO <sub>3</sub> ) <sub>2</sub> )	10099-74-8	100	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>

<b>SECTION IV. FIRST AID</b>	
<b>1) DESCRIPCIÓN DE LOS PRIMEROS AUXILIOS</b>	
<b>INHALATION</b>	CALL A DOCTOR. Provide fresh air. In case of irregular breathing or respiratory arrest, seek immediate medical assistance and prepare to take first aid measures.
<b>INGESTION</b>	Rinse mouth with water (only if person is conscious). In case of accident or if you feel unwell, seek medical advice immediately (show the label if possible). Call a doctor.
<b>SKIN</b>	In case of contact, rinse skin with water/shower. Call the doctor
<b>EYES</b>	In case of contact, immediately flush with plenty of water for at least 15 minutes. If discomfort appears or in case of doubt, consult a doctor.
<b>2) MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE OR CHRONIC</b>	
<b>ACUTE</b>	Inhalation may cause irritation of the upper respiratory system. Overexposure to vapors may cause irritation of mucous membranes, mouth and throat, headache, nausea and dizziness. Contact with skin and eyes may cause irritation.
<b>CHRONICLE</b>	None identified
<b>3) INDICATION OF THE NEED TO RECEIVE IMMEDIATE MEDICAL ATTENTION AND, IF APPROPRIATE, SPECIAL TREATMENT</b>	

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#### Notes for the doctor

Treat symptomatically. Contact a poison treatment specialist immediately if a large amount has been swallowed or inhaled. In case of inhalation of decomposition products in a fire, symptoms may appear later. The exposed person may need to be under medical surveillance for a period of 48 hours

Specific treatments: There is no specific treatment

Personnel protection: No action should be taken that involves personal risk or without adequate training. It can be dangerous for the person providing help by giving mouth-to-mouth resuscitation. Wash contaminated clothing with water before removing it or use gloves

### **SECTION V. FIRE FIGHTING MEASURES**

#### **1) SUITABLE EXTINGUISHING MEDIA**

Use an extinguishing agent suitable for the surrounding fire. Spray the area with water from a distance and cool until long after the fire has been extinguished / Immediately ventilate the area and avoid breathing gases

Unsuitable extinguishing media: Avoid using plenty of water as this may cause contamination

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## **2) SPECIFIC HAZARDS OF THE HAZARDOUS CHEMICAL SUBSTANCE OR MIXTURE**

Pressure may increase and container may explode in case of heating or fire. This material is toxic to aquatic life with long lasting effects. Firefighting water contaminated with this material must be prevented from entering waterways, drains or sewers.

Hazardous thermal decomposition products:

In the event of a fire, the following can be formed: nitrogen oxides (NO<sub>x</sub>).

## **3) SPECIAL MEASURES TO BE FOLLOWED BY FIRE FIGHTING GROUPS**

In the event of a fire, quickly isolate the area, evacuating all people from the vicinity of the incident site. No action should be taken that involves personal risk or without adequate training. Firefighting water contaminated with this material must be prevented from entering waterways, drains or sewers.

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus with a full facepiece operating in positive pressure mode. Fire protection clothing with chemical products.

## **SECTION VI. MEASURES TO BE TAKEN IN THE EVENT OF AN ACCIDENTAL SPILL OR LEAK**

### **1) PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE**

The use of appropriate protective equipment (including personal protective equipment mentioned in section 8 of the safety data sheet) in order to avoid any possible contamination of skin, eyes and clothing. Do not breathe the dust. Avoid contact with skin, eyes and clothing.

### **2) ENVIRONMENTAL PRECAUTIONS**

Avoid dispersion of spilled material, contact with the ground, waterways, drainage pipes and sewers. Inform the relevant authorities if the product has caused environmental contamination (sewers, waterways, soil or air).

Water contaminating material. It can be harmful to the environment if released in large quantities. Collect the spill.

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### 3) METHODS AND MATERIALS FOR CONTAINING AND CLEANING UP SPILLS OR LEAKS

#### Small Spill:

Stop leak if without risk. Remove containers from spill area. Dilute with water and scrub if water soluble. Alternatively, or if insoluble in water, absorb with a dry inert material and place in a suitable waste container. Dispose of through a licensed disposal contractor.

#### Big Spill:

Stop leak if without risk. Remove containers from spill area. Avoid entering sewers, water channels, basements or small areas. Wash spills to an effluent treatment plant or proceed as indicated below. Stop and collect spills with non-combustible absorbent materials, such as sand, soil, vermiculite, or diatomaceous earth, and place the material in a container for disposal in accordance with local regulations. Dispose of through a licensed disposal contractor. Note: See Section 1 for emergency contact information and Section 13 for waste disposal.

## SECTION VII. HANDLING AND STORAGE

### 1) PRECAUTIONS TO BE TAKEN TO ENSURE SAFE HANDLING

Protective Measures: Use appropriate personal protective equipment (See Section 8). Do not get into eyes, skin or clothing. Do not breathe vapors or mists. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only under adequately ventilated conditions or equipped with a suitable respirator. Keep in its original container or an approved alternative made of compatible material, keeping tightly closed when not in use. Empty containers retain product residue and can be dangerous. Do not reuse the container.

Information regarding hygiene at work in general: Eating, drinking or smoking should be prohibited in places where this product is handled, stored or treated. Workers should wash their hands and face before eating, drinking or smoking. Remove protective equipment and contaminated clothing before entering places or areas where you eat. See Section 8 for additional hygiene measures

### 2) CONDITIONS OF SECURE STORAGE, INCLUDING ANY INCOMPATIBILITY

Store in accordance with local regulations. Store in the original container protected from direct sunlight in a dry, cool and well-ventilated area, at room temperature, separated from incompatible materials: alkalis (see section 10) and food and drink. Keep the container tightly closed and sealed until ready to use.

Open containers should be carefully closed tightly and kept upright to prevent spills. Do not store in unlabeled containers. Use appropriate safety packaging to avoid environmental contamination. Fence storage facilities to prevent soil and water contamination in the event of a spill

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<b>SECCTION VIII. PERSONAL EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>1) CONTROL PARAMETERS (NOM-010-STPS-2014)</b>	
<b>PPT:</b> 2 mg/m <sup>3</sup>	<b>CT o P:</b> 10 mg/m <sup>3</sup>
<b>2) CONTROL PARAMETERS (NOM-010-STPS-2014)</b>	
If this product contains limited exposure ingredients, use process enclosures, local ventilation, or other engineering controls to keep worker exposure below all recommended or statutory limits.	
<b>3) INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT, PPE</b>	
<b>VENTILATION</b>	Use general ventilation or local exhaust to meet TLV requirements
<b>RESPIRATORY</b>	If concentrations exceed TLV limits, respiratory protection is required. At concentrations up to 75 ppm, a high-efficiency particulate respirator is recommended. If the concentration exceeds the respirator's capacity, a self-contained breathing apparatus is recommended.
<b>EYE PROTECTION</b>	Safety glasses with side protection (goggles)
<b>PROTECTIVE GLOVES</b>	Appropriate Protective Gloves.
<b>OTHERS</b>	None.

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<b>SECCTION IX. PHYSICAL AND CHEMICAL PROPERTIES</b>			
<b>1) APPEARANCE (PHYSICAL STATE AND COLOR)</b> White powder	<b>2) SMELL;</b>  Odorless	<b>3) ODOR THRESHOLD;</b>  Not avaiable	<b>4) PH;</b>  3-4
<b>5) MELTING POINT/FREEZING POINT;</b>  458 °C / Freezing Not available	<b>6) INITIAL POINT AND BOILING INTERVAL;</b>  >500 °C	<b>7) FLASHPOINT ;</b>  Not aplicable	<b>8) EVAPORATION RATE ;</b>  Not aplicable
<b>9) FLAMMABILITY (SOLID OR GAS);</b>  Not aplicable	<b>10); UPPER/LOWER LIMITS OF FLAMMABILITY OR EXPLOSIVITY.</b>  LS: Not aplicable LI: Not aplicable	<b>11) PRESSURE;</b>  Not aplicable	<b>12) VAPOR VAPOR DENSITY ;</b>  Not aplicable
<b>13) RELATIVE DENSITY;</b>  4.535 g/cm <sup>3</sup>	<b>14) SOLUBILITY);</b>  In water: Negligible	<b>15) PARTITION COEFFICIENT: N- OCTANOL/WATER;</b>  Not avaiable	<b>16) SPONTANEOUS IGNITION TEMPERATURE ;</b>  400 °C
<b>17) DECOMPOSITION TEMPERATURE;</b>  Not aplicable	<b>18) VISCOSITY;</b>  Not aplicable	<b>19) MOLECULAR WEIGHT</b>  Not avaiable	<b>20) OTHER RELEVANT DATA</b>  None

<b>SECCTION X. STABILITY AND REACTIVITY</b>	
<b>1) REACTIVITY</b>	This material is not reactive under normal environmental conditions
<b>2) HAZARDOUS CHEMICAL STABILITY</b>	This material is stable under normal environmental conditions and under predictable conditions of temperature and pressure during storage and handling.
<b>3) POSSIBILITY OF HAZARDOUS REACTIONS</b>	Danger of explosion: alcohols, ammonium compounds, esters, highly oxidizing.
<b>4) CONDITIONS TO BE AVOID</b>	There are no known particular conditions that should be avoided.

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<b>5) INCOMPATIBLE MATERIALS</b>	There is no additional information
<b>6) HAZARDOUS DECOMPOSITION PRODUCTS</b>	Hazardous combustion products: see section 5



SECCTION XI. TOXICOLOGICAL INFORMATION		
1) PRIMARY ENTRY ROUTE: Inhalation	ORGANS ATTACKED: Respiratory system	
2) SYMPTOMS RELATED TO PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS		
Sin Información		
3) IMMEDIATE AND DELAYED EFFECTS, AS WELL AS CHRONIC EFFECTS PRODUCED BY SHORT- AND LONG-TERM EXPOSURE		
No Information		
4) MEDIDAS NUMÉRICAS DE TOXICIDAD (TALES COMO ESTIMACIONES DE TOXICIDAD AGUDA)		
LD 50 ORAL (RAT INGESTION): ➤ 5000 mg/kg Acute oral toxicity	LDS 50 DERMIS (CONTACT) : N/A	

<b>SECCTION XII. ECOTOXICOLOGICAL INFORMATION</b>			
<b>1) TOXICITY</b>			
<b>Result</b>	<b>Species</b>	<b>Exposure</b>	<b>Reference</b>
Acute EC50 >1000 mg/l fresh water	Fish – Daphnia magna	<b>48 h</b>	Environmental Fate and Effects, US, EPA.
Acute CL50 1,1 mg/l fresh water	Fish – Oncorhynchus	<b>96 h</b>	Environmental Fate and Effects, US, EPA.
Acute CL50 >320 mg/l fresh water	Fish – Lepomis macrochirus	<b>96 h</b>	Environmental Fate and Effects, US, EPA.
Acute NOEC 0,026-0,075 mg/l fresh water	Fish – Jordanella floridae	<b>720</b>	Iuclid
Acute CL50 0,136 mg/l fresh water	Aquatic plants	<b>72 h</b>	
Very toxic to aquatic organisms. Toxic to aquatic organisms, with long-lasting harmful effects			
<b>2) PERSISTENCE AND BIODEGRADABILITY</b>			
No known significant risks or critical effects			

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<b>3) POTENCIAL DE BIOACUMULACIÓN</b>	
<i>No known significant risks or critical effects</i>	
<b>4) GROUND MOBILITY</b>	
<i>Not available, No significant risks or critical effects recognized</i>	
<b>5) OTHER ADVERSE EFFECTS</b>	
Ozone depletion;	<i>Not available</i>
Photochemical ozone creation;	<i>Not available</i>
Endocrine disruptor,	<i>Not available</i>
Global warming.	<i>Not available</i>

<b>SECCION XIII. INFORMATION REGARDING THE DISPOSAL OF PRODUCTS</b>	
<b>1) DISPOSAL METHODS</b>	
<p>Avoid or minimize the generation of waste when possible. Waste should not be flushed down the sewer untreated unless it is consistent with the requirements of all authorities having jurisdiction. Avoid dispersion of spilled material, contact with the ground, waterways, drainage pipes and sewers.</p> <p>Both leftover product and empty containers must be disposed of in accordance with current legislation on Environmental Protection and, in particular, Hazardous Waste (National Law No. 24,051 and its regulations). You must classify the waste and dispose of it through an authorized company.</p> <p>Dispose of product waste and its containers with all possible precautions. Precautions should be taken when handling emptied containers that have not been cleaned or rinsed. Empty containers or liners may retain product residue. Avoid or minimize the generation of waste when possible. Residual packaging must be recycled. Incineration or burial should only be considered when recycling is not feasible. Make sure the container is completely empty before recycling.</p>	

<b>SECCION XIV. RELATING TO TRANSPORTATION</b>	
<b>No. UN</b>	3077
<b>Official shipping designation</b>	Substance hazardous to the environment - ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUIS N.O.S. (zinc oxide)
<b>Class(es) relating to transport (IMO)</b>	 
<b>Class 9</b>	Miscellaneous Dangerous Objects
<b>Packing group/packaging, if applicable</b>	III

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<i>Environmental risks</i>	YES
<i>Special precautions for user</i>	Environmental risk
<i>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</i>	In progress

#### SECCTION XV. REGULATORY INFORMATION

<i>Specific safety, health and environmental provisions for substances hazardous chemicals or mixtures involved</i>	<i>Regulation 649/2012/EU on the export and import of hazardous chemicals (PIC): Not included in the list.</i> <i>Regulation 1001/2009/EC on substances that deplete the ozone layer (ODS): Not included in the list.</i> <i>Regulation 850/2004/EC on persistent organic pollutants (POP): Not included in the list.</i> <i>Restrictions according to REACH, Annex XVII: Not included in the list.</i>
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#### SECCTION XVI. OTHER INFORMATION INCLUDING THOSE REGARDING THE PREPARATION AND UPDATING OF SAFETY DATA SHEETS

<i>The preparation date</i>	In progress
<i>Description of abbreviations and acronyms used in the safety data sheet</i>	In progress
<i>References to the basic documents and data sources used to prepare the safety data sheet, these may be included in this section, if necessary, considers necessary.</i>	In progress

#### Disclaimer Clause

*The information in this safety data sheet is to the best of our knowledge at the time of printing. The information must be supporting points for the safe handling of products mentioned in this safety sheet for storage, processing, transportation and disposal. The instructions cannot be transferred to other products. As long as the product is mixed or manufactured with other materials, the indications of this safety sheet cannot be transferred to the new agent.*

<b>REVIEWED:</b>  Laboratory Coordinator	<b>APROVED:</b>  Quality manager
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