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SECTION 1: Id	lentification of the substance/mixture and of the company/undertaking
· 1.1 Product identif	- Tier
· Trade name: Lead	(II) nitrate (99.999%-Pb) PURATREM
	3267 i <b>fied uses of the substance or mixture and uses advised against</b> t information available.
•	upplier of the safety data sheet plier: nc.
• 1.4 Emergency tele EMERGENCY: CI	on obtainable from: Technical Department ephone number: HEMTREC: + 1 (800) 424-9300 ening times: +1 (978) 499-1600
· 2.1 Classification of	azards identification of the substance or mixture ording to Regulation (EC) No 1272/2008
GHS08 I	health hazard
	<ul><li>H360Df May damage the unborn child. Suspected of damaging fertility.</li><li>H373 May cause damage to organs through prolonged or repeated exposure.</li></ul>
GHS09 e	environment
Aquatic Acute 1 Aquatic Chronic 1 GHS07	<ul><li>H400 Very toxic to aquatic life.</li><li>H410 Very toxic to aquatic life with long lasting effects.</li></ul>
$\checkmark$	<ul><li>H302 Harmful if swallowed.</li><li>H332 Harmful if inhaled.</li></ul>
	ng to Regulation (EC) No 1272/2008 assified and labelled according to the CLP regulation. (Contd. on page 2)

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	(Contd. of page
· Hazard picto	grams
$\mathbf{\wedge}$	$\land$ $\land$
GHS07 G	HS08 GHS09
· Signal word	Danger
	mining components of labelling:
lead dinitrate	
· Hazard state	
	Harmful if swallowed or if inhaled.
	May damage the unborn child. Suspected of damaging fertility.
	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
· Precautional	
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, hot surfaces, sparks, open flames and other ignition sources. N smoking.
P221	Take any precaution to avoid mixing with combustibles.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P305+P351-	-P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/internation regulations.
· Additional in	formation:
	d. Should not be used on surfaces liable to be chewed or sucked by children.
· 2.3 Other ha	
	3T and vPvB assessment
• <b>PBT:</b> Not ap	
· vPvB: Not ap	plicable.

SECTION 3: Composition/information on ingrea

- · 3.1 Chemical characterisation: Substances
- CAS No. Description 10099-74-8 lead dinitrate
- · Identification number(s)
- EC number: 233-245-9
- Index number: 082-001-00-6

· SVHC

10099-74-8 lead dinitrate

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#### Trade name: Lead(II) nitrate (99.999%-Pb) PURATREM

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## **SECTION 4: First aid measures**

- 4.1 Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Call for a doctor immediately.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- **4.3** *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

## **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- · 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

- Inform respective authorities in case of seepage into water course or sewage system.
- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13.

Dispose contaminated material as waste according to item 15. Ensure adequate ventilation.

- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling

Thorough dedusting. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

- Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

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#### Trade name: Lead(II) nitrate (99.999%-Pb) PURATREM

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately.
- · Respiratory protection:
- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  $\cdot$  *Material of gloves*
- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- · Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · Eye protection:



Tightly sealed goggles

<ul> <li>9.1 Information on basic physics</li> <li>General Information</li> </ul>	seed and chemical properties	
· Appearance:		
Form:	Crystalline	
Colour:	White	
· Odour:	Odourless	
· Odour threshold:	Not determined.	
· pH-value:	Not applicable.	

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Change in condition		
Melting point/freezing point:	470 °C	
Initial boiling point and boiling range	e: Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not determined.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density at 20 °C:	4.53 g/cm <sup>3</sup>	
Bulk density at 20 °C:	1.850 kg/m <sup>3</sup>	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water at 20 °C:	525 g/l	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Organic solvents:	0.0 %	
VOC (EC)	0.00 %	
Solids content:	100.0 %	
9.2 Other information	No further relevant information available.	

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

• 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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## Trade name: Lead(II) nitrate (99.999%-Pb) PURATREM

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#### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity
- Harmful if swallowed or if inhaled.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity
- May damage the unborn child. Suspected of damaging fertility.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure
- May cause damage to organs through prolonged or repeated exposure.
- · Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- *Remark:* Very toxic for fish
- · Additional ecological information:
- · General notes:

Also poisonous for fish and plankton in water bodies.

- Very toxic for aquatic organisms
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14	: Transport in	formation
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· 14.1 UN-Number · ADR, IMDG, IATA

UN1469

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14.2 UN proper shipping name ADR IMDG IATA	1469 LEAD NITRATE LEAD NITRATE, MARINE POLLUTANT LEAD NITRATE
	LEAD MIIKAIE
14.3 Transport hazard class(es)	
ADR	
Class Label	5 5.1+6.1
IMDG	
Class	5.1 Oxidising substances.
Label IATA	5.1/6.1
Class	5.1 Oxidising substances.
Label	5.1 (6.1)
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No
Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user	Not applicable.
Danger code (Kemler):	56
Segregation groups	Heavy metals and their salts (including their organometall
Stowage Category	compounds), lead and its compounds A
14.7 Transport in bulk according to Anno Marpol and the IBC Code	
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1 kg
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 g
Transport category	Maximum net quantity per outer packaging: 500 g 2
1 unsport curegory	2



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· Tunnel restriction code	E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· UN ''Model Regulation'':	UN 1469 LEAD NITRATE, 5.1 (6.1), II

## **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

- · Seveso category E1 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 63

· National regulations:

· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

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• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Department.
- · Contact: Technical Director
- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4 Repr. 1A: Reproductive toxicity - Category 1A STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1