

Lead(II) nitrate solution 0.1 mol/I - 0.1 M solution Reag. Ph. Eur., chapter 4.2.2

according to Regulation (EC) No 1907/2006

Revision date: 14.10.2022

Product code: 25010

Page 1 of 11

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Lead(II) nitrate solution 0.1 mol/I - 0.1 M solution Reag. Ph. Eur., chapter 4.2.2

UFI:

C787-N29E-K002-N0GR

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	Fa. Bernd Kraft GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
e-mail:	info@berndkraft.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
e-mail:	produktsicherheit@berndkraft.de	
Internet:	www.berndkraft.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
<u>number:</u>	•	REC Day or Night Within USA and Canada: anada: +1 703-741-5970 (collect calls

Further Information

This product is a mixture. REACH Registration Number see section 3.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Eye Dam. 1; H318 Repr. 1A; H360Df STOT RE 2; H373 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

Danger

2.2. Label elements

Regulation (EC) No 1272/2008 Hazard components for labelling lead dinitrate

Signal word:

Pictograms:



Hazard statements

H318

Causes serious eye damage.



Lead(II) nitrate solution 0.1 mol/I - 0.1 M solution Reag. Ph. Eur., chapter 4.2.2

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protective gloves/protective clothing/eye protection/face protection/hearing ction.	
EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if nt and easy to do. Continue rinsing.	
bosed or concerned: Get medical advice/attention.	
diately call a POISON CENTER/doctor.	
	protective gloves/protective clothing/eye protection/face protection/hearing tion. EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if nt and easy to do. Continue rinsing. osed or concerned: Get medical advice/attention.

EUH201

Contains lead. Should not be used on surfaces liable to be chewed or sucked by children. Restricted to professional users.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Hazardous components

CAS No	Chemical name			Quantity			
	EC No Index No REACH No						
	Classification (Regulation (EC) No 1272/2008)						
10099-74-8	lead dinitrate						
	233-245-9 082-001-00-6						
	Repr. 1A, Acute Tox. 4, Acute Tox. 4, Eye Dam. 1, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H360Df H332 H302 H318 H373 H400 H410						

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No Chemical name					
	Specific Conc. Limits, M-factors and ATE					
10099-74-8	233-245-9 lead dinitrate					
		= 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = oral: LD50 = > 2000 mg/kg				

Further Information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: lead dinitrate

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing.

After inhalation

Provide fresh air.



an analyti**chem** company

according to Regulation (EC) No 1907/2006

Lead(II) nitrate solution 0.1 mol/I - 0.1 M solution Reag. Ph. Eur., chapter 4.2.2

Revision date: 14.10.2022

Product code: 25010

Page 3 of 11

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Vomiting Irritant Risk of serious damage to eyes. Gastrointestinal complaints

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible liquids Hazardous combustion products In case of fire may be liberated: Metal oxide smoke, toxic Nitrogen oxides (NOx)

5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Avoid contact with skin, eyes and clothes. In case of fire: Wear self-contained breathing apparatus.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Do not breathe vapour/aerosol.

For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.



Lead(II) nitrate solution 0.1 mol/I - 0.1 M solution Reag. Ph. Eur., chapter 4.2.2

Revision date: 14.10.2022

Product code: 25010

Page 4 of 11

Remove persons to safety.

Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care. Do not breathe vapour/aerosol. Avoid: aerosol or mist formation When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Make available sufficient washing facilities Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Further information on handling

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse. If handled uncovered, arrangements with local exhaust ventilation have to be used.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a well-ventilated place. Keep container tightly closed. Store in a place accessible by authorized persons only.

Further information on storage conditions

Store in a dry place.



Lead(II) nitrate solution 0.1 mol/I - 0.1 M solution Reag. Ph. Eur., chapter 4.2.2

Revision date: 14.10.2022

Product code: 25010

Page 5 of 11

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

PNEC values

CAS No	Substance		
Environmenta	al compartment	Value	
10099-74-8	lead dinitrate		
Freshwater		0,0065 mg/l	
Marine water	0,0034 mg/l		
Freshwater sediment 17			
Marine sedim	164 mg/kg		
Secondary po	10,9 mg/kg		
Micro-organis	0,1 mg/l		
Soil	147 mg/kg		

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Do not breathe vapour/aerosol.

Avoid: aerosol or mist formation

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles Wear eye/face protection.

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 741 Dermatril® L Suitable material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Suitable material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Take off immediately all contaminated clothing. Wash hands before breaks and after work.



Lead(II) nitrate solution 0.1 mol/I - 0.1 M solution Reag. Ph. Eur., chapter 4.2.2

Revision date: 14.10.2022

Product code: 25010

Page 6 of 11

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Gas: No data available Oxidizing properties No data available Other safety characteristics			
Oxidizing properties No data available Other safety characteristics			
No data available Other safety characteristics	_		No data available
Other safety characteristics			
•			
Evaporation rate: No data available	-		
	-		No data available
Solvent separation test: No data available			No data available
Solvent content: 0	Solvent content:		0



Lead(II) nitrate solution 0.1 mol/I - 0.1 M solution Reag. Ph. Eur., chapter 4.2.2

Revision date: 14.10.2022	Product code: 25010	Page 7 of 11
Solid content:	0	
Sublimation point:	No data available	
Softening point:	No data available	
Pour point:	No data available	
No data available:		
Viscosity / dynamic:	No data available	
Flow time:	No data available	
Further Information		

Further Information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In case of fire may be liberated:

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
10099-74-8	lead dinitrate	lead dinitrate					
	oral	LD50 mg/kg	> 2000	Rat	Study report (2003)	OECD Guideline 423	
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2003)	OECD Guideline 402	
	inhalation vapour	ATE	11 mg/l				
	inhalation dust/mist	ATE	1,5 mg/l				

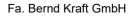
Irritation and corrosivity

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.





an analyti**chem** company

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Lead(II) nitrate solution 0.1 mol/I - 0.1 M solution Reag. Ph. Eur., chapter 4.2.2

Revision date: 14.10.2022

Product code: 25010

Page 8 of 11

Carcinogenic/mutagenic/toxic effects for reproduction

May damage the unborn child. Suspected of damaging fertility. (lead dinitrate) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met.

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. (lead dinitrate)

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

There are no data available on the mixture itself.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Endocrine disrupting properties

There are no data available on the mixture itself.

Other information

There are no data available on the mixture itself.

Further information

Vomiting Irritant Risk of serious damage to eyes. Gastrointestinal complaints

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
10099-74-8	lead dinitrate	lead dinitrate					
	Acute fish toxicity	LC50 mg/l	1,17	96 h	Oncorhynchus mykiss	Publication (1976)	Acute bioassays
	Acute algae toxicity	ErC50 mg/l	0,123	72 h	Pseudokirchneriella subcapitata	Study report (2008)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	0,59683	48 h	Ceriodaphnia dubia	Study report (2007)	other: USEP
	Fish toxicity	NOEC mg/l	0,087	62 d	Oncorhynchus mykiss	Publication (2008)	methods adapted from the standard guide
	Crustacea toxicity	NOEC mg/l	0,099	7 d	Ceriodaphnia dubia	Publication (1995)	chronic toxicity testing of lead to aqua

12.2. Persistence and degradability

There are no data available on the mixture itself.



Lead(II) nitrate solution 0.1 mol/I - 0.1 M solution Reag. Ph. Eur., chapter 4.2.2

Revision date: 14.10.2022

Product code: 25010

Page 9 of 11

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

BCF

CAS No	Chemical name	BCF	Species	Source
10099-74-8	lead dinitrate	3250	Hyalella azteca	Hydrobiologya 259: 7

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Discharge into the environment must be avoided.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not allow to enter into surface water or drains.

Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)	
14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (lead
	dinitrate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Classification code:	M6
Special Provisions:	274 335 375 601
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	90
Tunnel restriction code:	-
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (lead
	dinitrate)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9



Lead(II) nitrate solution 0.1 mol/I - 0.1 M solution Reag. Ph. Eur., chapter 4.2.2

Lead(II) nitrate solution	on 0.1 mol/l - 0.1 M	I solution Reag. Ph. Eur., chapter 4.2.2	
Revision date: 14.10.2022	Product c	ode: 25010	Page 10 of 11
Classification code:	M6		
Special Provisions:	274 335 375 601		
Limited quantity:	5 L		
Excepted quantity:	E1		
Marine transport (IMDG)			
14.1. UN number or ID number:	UN 3082		
14.2. UN proper shipping name:	ENVIRONMENTAL	LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	. (lead
	dinitrate)		
14.3. Transport hazard class(es):	9		
14.4. Packing group:	III		
Hazard label:	9		
Special Provisions:	274, 335, 969		
Limited quantity:	5 L		
Excepted quantity:	E1		
EmS:	F-A, S-F		
Air transport (ICAO-TI/IATA-DGR)			
<u>14.1. UN number or ID number:</u>	UN 3082		
14.2. UN proper shipping name:		LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	. (lead
	dinitrate)		
14.3. Transport hazard class(es):	9		
14.4. Packing group:	III 0		
Hazard label:	9		
Special Provisions:	A97 A158 A197		
Limited quantity Passenger: Passenger LQ:	30 kg G Y964		
Excepted quantity:	E1		
IATA-packing instructions - Passenger:		964	
IATA-max. quantity - Passenger:		450 L	
IATA-packing instructions - Cargo:		964	
IATA-max. quantity - Cargo:		450 L	
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	Yes		
Danger releasing substance:	lead dinitrate		
	leau unnitale		
14.6. Special precautions for user			
No dangerous good in sense of this tr			
14.7. Maritime transport in bulk according t			
No dangerous good in sense of this tr	ansport regulation.		
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regu	ulations/legislation sp	ecific for the substance or mixture	
EU regulatory information			
Authorisations (REACH, annex XIV):			
Substances of very high concern, SVI	HC (REACH article 50).	
lead dinitrate	ic (neach, annse 59	J•	

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 63, Entry 75 Information according to 2012/18/EU

E2 Hazardous to the Aquatic Environment

National regulatory information

(SEVESO III):



Lead(II) nitrate solution 0.1 mol/I - 0.1 M solution Reag. Ph. Eur., chapter 4.2.2

Revision date: 14.10.2022	Product code: 25010	Page 11 of 11
Employment restrictions:	Observe restrictions to employment for juveniles acco work protection guideline' (94/33/EC). Observe employ under the Maternity Protection Directive (92/85/EEC) for nursing mothers. Observe employment restrictions for child-bearing age.	yment restrictions for expectant or
Water hazard class (D):	3 - highly hazardous to water	

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 9,13.

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Eye Dam. 1; H318	Calculation method
Repr. 1A; H360Df	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH201	Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)