

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

Revision Date 29.05.2018

Version 9.0

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**SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®

Pb-1

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

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

Identified uses Reagent for analysis  
For additional information on uses please refer to the Merck Chemicals portal ([www.merckgroup.com](http://www.merckgroup.com)).

**1.3 Details of the supplier of the safety data sheet**

Company Merck KGaA \* 64271 Darmstadt \* Germany \* Phone:+49 6151 72-0  
Responsible Department LS-QHC \* e-mail: [prodsafe@merckgroup.com](mailto:prodsafe@merckgroup.com)

**1.4 Emergency telephone number** Please contact the regional company representation in your country.

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**SECTION 2. Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 3, Oral, H301

Acute toxicity, Category 4, Inhalation, H332

Acute toxicity, Category 3, Dermal, H311

Specific target organ toxicity - repeated exposure, Category 2, thyroid, H373

Acute aquatic toxicity, Category 1, H400

Chronic aquatic toxicity, Category 2, H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.

109717

Product name

Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-1

## 2.2 Label elements

### Labelling.(REGULATION (EC) No 1272/2008)

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H301 + H311 Toxic if swallowed or in contact with skin.

H332 Harmful if inhaled.

H373 May cause damage to organs (thyroid) through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

EUH032 Contact with acids liberates very toxic gas.

#### Precautionary statements

##### Prevention

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing.

##### Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

### Reduced labelling ( $\leq 125$ ml)

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H301 + H311 Toxic if swallowed or in contact with skin.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-1

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EUH032 Contact with acids liberates very toxic gas.

#### *Precautionary statements*

P280 Wear protective gloves/ protective clothing.

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

Contains: Potassium cyanide

### 2.3 Other hazards

None known.

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## SECTION 3. Composition/information on ingredients

Chemical nature Mixture of inorganic and organic compounds

### 3.1 Substance

Not applicable

### 3.2 Mixture

#### **Hazardous components (REGULATION (EC) No 1272/2008)**

##### *Chemical name (Concentration)*

CAS-No.	Registration number	Classification
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Potassium cyanide ( $\geq 2,5\%$ - $< 7\%$ )		
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151-50-8	01-2119486407-29- xxxx	
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Acute toxicity, Category 2, H300

Acute toxicity, Category 2, H330

Acute toxicity, Category 1, H310

Specific target organ toxicity - repeated exposure, Category 1,  
H372

Acute aquatic toxicity, Category 1, H400

Chronic aquatic toxicity, Category 1, H410

M-Factor: 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

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## SECTION 4. First aid measures

### 4.1 Description of first aid measures

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The Safety Data Sheets for catalogue items are available at [www.merckgroup.com](http://www.merckgroup.com)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	109717
Product name	Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant® Pb-1

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## *General advice*

General information: Immediately call in physician (mention hydrocyanic acid poisoning). Rapid action is called for.

First aider needs to protect himself.

After inhalation: fresh air. Call in physician.

If breathing stops: mouth-to-mouth breathing or artificial respiration.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

## **4.2 Most important symptoms and effects, both acute and delayed**

The following applies to cyanogen compounds/ nitriles in general: utmost caution! Release of hydrocyanic acid is possible - blockade of cellular respiration. Cardiovascular disorders, dyspnoea, unconsciousness.

irritant effects, Headache, Dizziness, Nausea, Vomiting, agitation, Convulsions, Shortness of breath, Unconsciousness, respiratory paralysis, cardiovascular disorders, death

## **4.3 Indication of any immediate medical attention and special treatment needed**

Keep antidotes ready:

dimethylaminophenol

Cobalt-EDTA

sodium thiosulphate

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## **SECTION 5. Firefighting measures**

### **5.1 Extinguishing media**

*Suitable extinguishing media*

Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

*Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

### **5.2 Special hazards arising from the substance or mixture**

Mixture with combustible ingredients.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

Fire may cause evolution of:

Sulphur oxides

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-1

---

## 5.3 Advice for firefighters

### *Special protective equipment for firefighters*

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

### *Further information*

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## SECTION 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemisorb®). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

Indications about waste treatment see section 13.

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## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

#### *Advice on safe handling*

Observe label precautions.

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### *Hygiene measures*

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

### 7.2 Conditions for safe storage, including any incompatibilities

#### *Storage conditions*

Tightly closed in a well-ventilated place. Accessible only for authorised persons.

Recommended storage temperature see product label.

The data applies to the entire pack.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-1

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## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Derived No Effect Level (DNEL)

##### *Potassium cyanide (151-50-8)*

Worker DNEL, acute	Systemic effects	dermal	4,03 mg/kg Body weight
Worker DNEL, acute	Systemic effects	inhalation	12,5 mg/m <sup>3</sup>
Worker DNEL, longterm	Systemic effects	dermal	0,14 mg/kg Body weight
Worker DNEL, longterm	Systemic effects	inhalation	0,94 mg/m <sup>3</sup>

#### Predicted No Effect Concentration (PNEC)

##### *Potassium cyanide (151-50-8)*

PNEC Fresh water	0,001 mg/l
PNEC Marine water	0,001 mg/l
PNEC Aquatic intermittent release	0,005 mg/l
PNEC Sewage treatment plant	0,05 mg/l
PNEC Fresh water sediment	0,004 mg/kg
PNEC Marine sediment	0,004 mg/kg
PNEC Soil	0,007 mg/kg

### 8.2 Exposure controls

#### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

#### Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

##### *Eye/face protection*

Safety glasses

##### *Hand protection*

full contact:

Glove material:	polychloroprene
Glove thickness:	0,65 mm
Break through time:	> 480 min

splash contact:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-1

---

Glove material: natural latex  
Glove thickness: 0,6 mm  
Break through time: > 240 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 720 Camapren® (full contact), KCL 706 Lapren® (splash contact).

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](http://www.kcl.de)).

#### *Other protective equipment*

protective clothing

#### *Respiratory protection*

required when vapours/aerosols are generated.

Recommended Filter type: filter ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### **Environmental exposure controls**

Do not let product enter drains.

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## **SECTION 9. Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Form	liquid
Colour	dark orange
Odour	No strong odour known.
Odour Threshold	No information available.
pH	ca. 13 at 20 °C
Melting point	No information available.
Boiling point	No information available.
Flash point	> 100 °C Information taken from reference works and the literature.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	109717
Product name	Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant® Pb-1

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Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	ca. 1,09 g/cm <sup>3</sup> at 20 °C
Relative density	No information available.
Water solubility	No information available.
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

## 9.2 Other data

none

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## SECTION 10. Stability and reactivity

### 10.1 Reactivity

Forms explosive mixtures with air on intense heating.  
A range from approx. 15 Kelvin below the flash point is to be rated as critical.

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Generates dangerous gases or fumes in contact with:

Acids, Possible formation of:

Hydrogen cyanide (hydrocyanic acid)

Risk of explosion with:

acetylidene, organic halides, perchlorates, Acid chlorides, nonmetallic halides, iron(III) compounds, nitrates, fluorides, chlorates, hydrides, perchloric acid, Oxides of phosphorus, Nitric acid, silver compounds, silicon compounds, silanes, acid halides

Exothermic reaction with:

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-1

---

boron compounds, oxyhalogenic compounds, Potassium, sodium, Strong oxidizing agents, phosphorus halides, strong reducing agents, Acid chlorides, Strong acids, silver salt, nitrogen dioxide

Risk of ignition or formation of inflammable gases or vapours with:  
potassium permanganate

## 10.4 Conditions to avoid

Strong heating.

## 10.5 Incompatible materials

various plastics, Metals

## 10.6 Hazardous decomposition products

in the event of fire: See section 5.

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## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### Mixture

##### *Acute oral toxicity*

Acute toxicity estimate: 187,99 mg/kg

Calculation method

##### *Acute inhalation toxicity*

Acute toxicity estimate: 1,92 mg/l; 4 h ; dust/mist

Calculation method

##### *Acute dermal toxicity*

Acute toxicity estimate : 537,22 mg/kg

Calculation method

##### *Skin irritation*

This information is not available.

##### *Eye irritation*

This information is not available.

##### *Sensitisation*

This information is not available.

##### *Germ cell mutagenicity*

This information is not available.

##### *Carcinogenicity*

This information is not available.

##### *Reproductive toxicity*

This information is not available.

##### *Teratogenicity*

This information is not available.

##### *Specific target organ toxicity - single exposure*

This information is not available.

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-1

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### *Specific target organ toxicity - repeated exposure*

Mixture may cause damage to organs through prolonged or repeated exposure.

Target Organs: Thyroid

### *Aspiration hazard*

This information is not available.

## 11.2 Further information

The following applies to cyanogen compounds/ nitriles in general: utmost caution! Release of hydrocyanic acid is possible - blockade of cellular respiration. Cardiovascular disorders, dyspnoea, unconsciousness.

Systemic effects:

After absorption:

Nausea, Vomiting, Shortness of breath, Dizziness, agitation, Convulsions, respiratory paralysis, cardiovascular disorders, tachycardia, Unconsciousness, death

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

## Components

### *Potassium cyanide*

#### *Acute oral toxicity*

LD50 Rat: 7,49 - 10 mg/kg (ECHA)

#### *Acute inhalation toxicity*

Acute toxicity estimate: 0,051 mg/l; dust/mist

Expert judgement

#### *Acute dermal toxicity*

LD50 Rabbit: 14,29 mg/kg (ECHA)

#### *Germ cell mutagenicity*

##### *Genotoxicity in vitro*

In vitro mammalian cell gene mutation test

Chinese hamster lung cells

Result: negative

(ECHA)

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## SECTION 12. Ecological information

### Mixture

#### 12.1 Toxicity

No information available.

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-1

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## 12.6 Other adverse effects

Discharge into the environment must be avoided.

### Components

#### *Potassium cyanide*

##### *Toxicity to fish*

flow-through test LC50 Fish: 0,0988 mg/l; 96 h (ECHA) (referred to cyanide ions) The value is given in analogy to the following substances:

##### *Toxicity to daphnia and other aquatic invertebrates*

static test LC50 Daphnia pulex (Water flea): 0,11 mg/l; 48 h (ECHA)

##### *Toxicity to algae*

IC5 Scenedesmus quadricauda (Green algae): 0,03 mg/l; 8 d (referred to cyanide ions) (IUCLID) (maximum permissible toxic concentration)

##### *Toxicity to bacteria*

EC5 Pseudomonas putida: 0,001 mg/l; 16 h (referred to the anion) (IUCLID) (maximum permissible toxic concentration)

static test EC50 activated sludge: 0,6 - 2,3 mg/l; 30 min (IUCLID)

##### *Biodegradability*

The methods for determining the biological degradability are not applicable to inorganic substances.

##### *M-Factor*

10

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## SECTION 13. Disposal considerations

### *Waste treatment methods*

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

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## SECTION 14. Transport information

### Land transport (ADR/RID)

14.1 UN number	UN 3316
14.2 Proper shipping name	CHEMICAL KIT
14.3 Class	9
14.4 Packing group	II
14.5 Environmentally hazardous	--
14.6 Special precautions for user	yes
Tunnel restriction code	E

### Inland waterway transport (ADN)

Not relevant

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-1

---

## Air transport (IATA)

14.1 UN number UN 3316  
14.2 Proper shipping name CHEMICAL KIT  
14.3 Class 9  
14.4 Packing group II  
14.5 Environmentally hazardous --  
14.6 Special precautions for user no

## Sea transport (IMDG)

14.1 UN number UN 3316  
14.2 Proper shipping name CHEMICAL KIT  
14.3 Class 9  
14.4 Packing group II  
14.5 Environmentally hazardous --  
14.6 Special precautions for user yes  
EmS F-A S-P

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not relevant

THIS TRANSPORT DATA APPLIES TO THE ENTIRE PACK!

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## SECTION 15. Regulatory information

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

#### *EU regulations*

Major Accident Hazard 96/82/EC  
Legislation Toxic  
2  
Quantity 1: 50 t  
Quantity 2: 200 t  
  
96/82/EC  
Dangerous for the environment  
9a  
Quantity 1: 100 t  
Quantity 2: 200 t  
  
SEVESO III  
ENVIRONMENTAL HAZARDS  
E1  
Quantity 1: 100 t  
Quantity 2: 200 t

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-1

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Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at work. Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC not regulated

Substances of very high concern (SVHC) This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of  $\geq 0.1\%$  (w/w).

#### *National legislation*

|| Storage class 6.1A  
The data applies to the entire pack.

## 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

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## SECTION 16. Other information

### Full text of H-Statements referred to under sections 2 and 3.

H300	Fatal if swallowed.
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
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.

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	109717
Product name	Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant® Pb-1

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## Training advice

Provide adequate information, instruction and training for operators.

## Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

## Regional representation

This information is given on the authorised Safety Data Sheet for your country.

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*The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.*

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

Revision Date 29.05.2018

Version 9.0

---

**SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®

Pb-2

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

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

Identified uses Reagent for analysis  
For additional information on uses please refer to the Merck Chemicals portal ([www.merckgroup.com](http://www.merckgroup.com)).

**1.3 Details of the supplier of the safety data sheet**

Company Merck KGaA \* 64271 Darmstadt \* Germany \* Phone:+49 6151 72-0  
Responsible Department LS-QHC \* e-mail: [prodsafe@merckgroup.com](mailto:prodsafe@merckgroup.com)

**1.4 Emergency telephone number** Please contact the regional company representation in your country.

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**SECTION 2. Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Corrosive to metals, Category 1, H290

Acute toxicity, Category 4, Oral, H302

Skin irritation, Category 2, H315

Serious eye damage, Category 1, H318

Skin sensitisation, Category 1, H317

Carcinogenicity, Category 2, H351

Specific target organ toxicity - repeated exposure, Category 2, H373

Acute aquatic toxicity, Category 1, H400

For the full text of the H-Statements mentioned in this Section, see Section 16.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-2

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## 2.2 Label elements

Labelling.(REGULATION (EC) No 1272/2008)

*Hazard pictograms*



*Signal word*

Danger

*Hazard statements*

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

*Precautionary statements*

Prevention

P273 Avoid release to the environment.

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

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-2

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## Reduced labelling (≤125 ml)

### Hazard pictograms



### Signal word

Danger

### Hazard statements

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H351 Suspected of causing cancer.

### Precautionary statements

P280 Wear protective gloves.

P280 Wear eye protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Contains: Hydroxylammonium chloride, ammonia solution

## 2.3 Other hazards

None known.

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## SECTION 3. Composition/information on ingredients

Chemical nature Aqueous solution

### 3.1 Substance

Not applicable

### 3.2 Mixture

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-2

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## Hazardous components (REGULATION (EC) No 1272/2008)

*Chemical name (Concentration)*

CAS-No. Registration number Classification

Hydroxylammonium chloride ( $\geq 20\%$  -  $< 25\%$ )

5470-11-1 \*)

Corrosive to metals, Category 1, H290  
Acute toxicity, Category 4, H302  
Acute toxicity, Category 4, H312  
Skin irritation, Category 2, H315  
Eye irritation, Category 2, H319  
Skin sensitisation, Category 1, H317  
Carcinogenicity, Category 2, H351  
Specific target organ toxicity - repeated exposure, Category 2,  
H373  
Acute aquatic toxicity, Category 1, H400

ammonium chloride ( $\geq 3\%$  -  $< 10\%$ )

*Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.*

12125-02-9 01-2119487950-27-

XXXX

Acute toxicity, Category 4, H302  
Eye irritation, Category 2, H319

ammonia solution ( $\geq 2,5\%$  -  $< 5\%$ )

*Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.*

1336-21-6 01-2119488876-14-

xxxx

Corrosive to metals, Category 1, H290  
Skin corrosion, Category 1B, H314  
Specific target organ toxicity - single exposure, Category 3, H335  
Acute aquatic toxicity, Category 1, H400

\*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	109717
Product name	Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant® Pb-2

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For the full text of the H-Statements mentioned in this Section, see Section 16.

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## SECTION 4. First aid measures

### 4.1 Description of first aid measures

After inhalation: fresh air. Call in physician.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Consult a physician.

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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

Dermatitis, Cyanosis

The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting, diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, haemolysis.

Irritation and corrosion, Allergic reactions

Risk of serious damage to eyes.

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

No information available.

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## SECTION 5. Firefighting measures

### 5.1 Extinguishing media

*Suitable extinguishing media*

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

*Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

### 5.2 Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapours.

Fire may cause evolution of:

nitrogen oxides

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-2

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## 5.3 Advice for firefighters

### *Special protective equipment for firefighters*

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

### *Further information*

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

---

## SECTION 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemisorb®). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

Indications about waste treatment see section 13.

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## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

#### *Advice on safe handling*

Observe label precautions.

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### *Hygiene measures*

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

### 7.2 Conditions for safe storage, including any incompatibilities

#### *Requirements for storage areas and containers*

No metal containers.

#### *Storage conditions*

Tightly closed in a well-ventilated place. Accesible only for authorised persons.

Recommended storage temperature see product label.

The data applies to the entire pack.

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-2

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## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Derived No Effect Level (DNEL)

##### *ammonium chloride (12125-02-9)*

Worker DNEL, longterm	Systemic effects	inhalation	43,97 mg/m <sup>3</sup>
Worker DNEL, longterm	Systemic effects	dermal	128,9 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	inhalation	9,4 mg/m <sup>3</sup>
Consumer DNEL, longterm	Systemic effects	dermal	55,2 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	oral	55,2 mg/kg Body weight

##### *ammonia solution (1336-21-6)*

Worker DNEL, acute	Systemic effects	dermal	6,8 mg/kg Body weight
Worker DNEL, longterm	Systemic effects	dermal	6,8 mg/kg Body weight
Worker DNEL, acute	Systemic effects	inhalation	47,6 mg/m <sup>3</sup>
Worker DNEL, acute	Local effects	inhalation	36 mg/m <sup>3</sup>
Worker DNEL, longterm	Systemic effects	inhalation	47,6 mg/m <sup>3</sup>
Worker DNEL, longterm	Local effects	inhalation	14 mg/m <sup>3</sup>
Consumer DNEL, acute	Systemic effects	dermal	68 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	dermal	68 mg/kg Body weight
Consumer DNEL, acute	Systemic effects	inhalation	23,8 mg/m <sup>3</sup>
Consumer DNEL, acute	Local effects	inhalation	7,2 mg/m <sup>3</sup>
Consumer DNEL, longterm	Systemic effects	inhalation	23,8 mg/m <sup>3</sup>
Consumer DNEL, longterm	Local effects	inhalation	2,8 mg/m <sup>3</sup>
Consumer DNEL, acute	Systemic effects	oral	6,8 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	oral	6,8 mg/kg Body weight

##### *ammonium chloride (12125-02-9)*

PNEC Fresh water	0,25 mg/l
PNEC Fresh water sediment	0,9 mg/kg
PNEC Marine water	0,025 mg/l
PNEC Marine sediment	0,09 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-2

---

PNEC Aquatic intermittent release	0,43 mg/l
PNEC Soil	50,7 mg/kg
PNEC Sewage treatment plant	13,1 mg/l
<i>ammonia solution (1336-21-6)</i>	
PNEC Fresh water	0,0011 mg/l
PNEC Aquatic intermittent release	0,0068 mg/l
PNEC Marine water	0,00011 mg/l

## 8.2 Exposure controls

### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

### Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

#### *Eye/face protection*

Tightly fitting safety goggles

#### *Hand protection*

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0,40 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0,40 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 730 Camatril® -Velours (full contact), KCL 730 Camatril® -Velours (splash contact).

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](http://www.kcl.de)).

#### *Other protective equipment*

protective clothing

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-2

---

### *Respiratory protection*

required when vapours/aerosols are generated.

Recommended Filter type: filter ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

### **Environmental exposure controls**

Do not let product enter drains.

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## **SECTION 9. Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Form	liquid
Colour	colourless
Odour	No strong odour known.
Odour Threshold	No information available.
pH	No information available.
Melting point	No information available.
Boiling point	No information available.
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	ca. 1,11 g/cm <sup>3</sup> at 20 °C
Relative density	No information available.
Water solubility	No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	109717
Product name	Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant® Pb-2

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Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

## 9.2 Other data

Corrosion	May be corrosive to metals.
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## SECTION 10. Stability and reactivity

### 10.1 Reactivity

See section 10.3

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

A risk of explosion and/or of toxic gas formation exists with the following substances:

Oxidizing agents, Mercury, Oxygen, silver compounds, nitrogen trichloride, hydrogen peroxide, silver, antimony hydride, halogens, Acids, Calcium, Chlorine, Chlorites, auric salts, perchlorates, sodium hypochlorite, mercury compounds, halogen oxides

Heavy metals, Heavy metal salts, Acid chlorides, Acid anhydrides

Risk of ignition or formation of inflammable gases or vapours with:

Boranes, Boron, Oxides of phosphorus, Nitric acid, silicon compounds, chromium(VI) oxide, chromyl chloride

Exothermic reaction with:

Acetaldehyde, Acrolein, Barium, boron compounds, Bromine, halogen-halogen compounds, hydrogen bromide, silane, Hydrogen chloride gas, halogen compounds, dimethylsulfate, nitrogen oxides, Fluorine, Hydrogen fluoride, chlorates, carbon dioxide

Ethylene oxide, polymerisable

### 10.4 Conditions to avoid

no information available

### 10.5 Incompatible materials

Metals

Aluminium, Lead, Nickel, silver, Zinc, Copper, metal alloys

### 10.6 Hazardous decomposition products



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	109717
Product name	Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant® Pb-2

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in the event of fire: See section 5.

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## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

#### Mixture

##### *Acute oral toxicity*

Acute toxicity estimate: 1.970 mg/kg

Calculation method

Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

##### *Acute inhalation toxicity*

Symptoms: Possible symptoms: mucosal irritations

##### *Acute dermal toxicity*

Acute toxicity estimate : > 2.000 mg/kg

Calculation method

##### *Skin irritation*

Mixture causes skin irritation.

##### *Eye irritation*

Mixture causes serious eye damage.

##### *Sensitisation*

Mixture may cause an allergic skin reaction.

##### *Germ cell mutagenicity*

This information is not available.

##### *Carcinogenicity*

This information is not available.

##### *Reproductive toxicity*

This information is not available.

##### *Teratogenicity*

This information is not available.

##### *CMR effects*

Carcinogenicity:

Evidence of a carcinogenic effect.

##### *Specific target organ toxicity - single exposure*

This information is not available.

##### *Specific target organ toxicity - repeated exposure*

Mixture may cause damage to organs through prolonged or repeated exposure.

##### *Aspiration hazard*

This information is not available.

### 11.2 Further information

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-2

---

After absorption:

drop in blood pressure, Cyanosis, Risk of methaemoglobin formation.

The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting, diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, haemolysis.

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

## Components

### *Hydroxylammonium chloride*

#### *Acute dermal toxicity*

Acute toxicity estimate : 1.100,1 mg/kg

Expert judgement

#### *Skin irritation*

Rabbit

Result: slight irritation

(IUCLID)

In vitro study

Result: Irritating to skin.

OECD Test Guideline 439

#### *Sensitisation*

Human experience

Result: positive

(Lit.)

### *ammonium chloride*

#### *Acute oral toxicity*

LD50 Rat: 1.410 mg/kg

OECD Test Guideline 401

#### *Acute dermal toxicity*

LD50 Rat: > 2.000 mg/kg (ECHA)

#### *Skin irritation*

Rabbit

Result: No skin irritation

Draize Test

#### *Eye irritation*

Rabbit

Result: Eye irritation

OECD Test Guideline 405

#### *Sensitisation*

Maximisation Test Guinea pig

Result: negative

(ECHA)

#### *Repeated dose toxicity*

Rat

male and female

Oral

90 d

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-2

---

daily  
NOAEL: 1.695,7 mg/kg  
OECD Test Guideline 408  
Subchronic toxicity

*Germ cell mutagenicity*  
*Genotoxicity in vivo*  
Micronucleus test  
Mouse  
male  
Intraperitoneal injection  
Result: negative  
Method: OECD Test Guideline 474

*Genotoxicity in vitro*  
HGPR (cell forward mutation assay)  
Result: negative  
Method: OECD Test Guideline 476

Ames test  
Escherichia coli/Salmonella typhimurium  
Result: negative  
Method: OECD Test Guideline 471

*ammonia solution*  
No information available.

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## SECTION 12. Ecological information

### Mixture

#### 12.1 Toxicity

No information available.

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### 12.6 Other adverse effects

Discharge into the environment must be avoided.

### Components

*Hydroxylammonium chloride*

*Partition coefficient: n-octanol/water*  
Not applicable for inorganic substances

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-2

---

*Surface tension*

71,8 mN/m

at 20 °C

Method: OECD Test Guideline 115

*ammonium chloride*

*Toxicity to fish*

LC50 *Oncorhynchus mykiss* (rainbow trout): 42,91 mg/l; 96 h

Analytical monitoring: yes

US-EPA

*Toxicity to daphnia and other aquatic invertebrates*

static test EC50 *Daphnia magna* (Water flea): > 100 mg/l; 48 h

Analytical monitoring: yes(ECHA)

*Toxicity to bacteria*

static test EC50 activated sludge: 1.310 mg/l; 0,5 h

OECD Test Guideline 209

*Toxicity to fish (Chronic toxicity)*

flow-through test EC10 *Lepomis macrochirus* (Bluegill sunfish): 4,28 mg/l; 30 d

Analytical monitoring: yes(ECHA)

*Biodegradability*

The methods for determining the biological degradability are not applicable to inorganic substances.

*Partition coefficient: n-octanol/water*

Not applicable for inorganic substances

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

*ammonia solution*

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-2

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## SECTION 13. Disposal considerations

### *Waste treatment methods*

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

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## SECTION 14. Transport information

### Land transport (ADR/RID)

14.1 UN number UN 3316  
14.2 Proper shipping name CHEMICAL KIT  
14.3 Class 9  
14.4 Packing group II  
14.5 Environmentally hazardous --  
14.6 Special precautions for user yes  
Tunnel restriction code E

### Inland waterway transport (ADN)

Not relevant

### Air transport (IATA)

14.1 UN number UN 3316  
14.2 Proper shipping name CHEMICAL KIT  
14.3 Class 9  
14.4 Packing group II  
14.5 Environmentally hazardous --  
14.6 Special precautions for user no

### Sea transport (IMDG)

14.1 UN number UN 3316  
14.2 Proper shipping name CHEMICAL KIT  
14.3 Class 9  
14.4 Packing group II  
14.5 Environmentally hazardous --  
14.6 Special precautions for user yes  
EmS F-A S-P

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

THIS TRANSPORT DATA APPLIES TO THE ENTIRE PACK!

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-2

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## SECTION 15. Regulatory information

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

#### *EU regulations*

Major Accident Hazard 96/82/EC  
Legislation Dangerous for the environment  
9a  
Quantity 1: 100 t  
Quantity 2: 200 t

SEVESO III  
ENVIRONMENTAL HAZARDS  
E1  
Quantity 1: 100 t  
Quantity 2: 200 t

Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at work. Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC not regulated

Substances of very high concern (SVHC) This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of  $\geq 0.1$  % (w/w).

#### *National legislation*

|| Storage class 6.1A  
The data applies to the entire pack.

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No. 109717  
Product name Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant®  
Pb-2

---

## SECTION 16. Other information

### Full text of H-Statements referred to under sections 2 and 3.

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

### Training advice

Provide adequate information, instruction and training for operators.

### Labelling

#### *Hazard pictograms*



#### *Signal word*

Danger

#### *Hazard statements*

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H315 Causes skin irritation.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Catalogue No.	109717
Product name	Lead Test Method: photometric 0.010 - 5.00 mg/l Pb Spectroquant® Pb-2

---

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

### *Precautionary statements*

#### Prevention

P273 Avoid release to the environment.

P280 Wear eye protection.

#### Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/ attention if you feel unwell.

Contains: Hydroxylammonium chloride, ammonia solution

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

### **Regional representation**

This information is given on the authorised Safety Data Sheet for your country.

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*The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.*