

Name: **Reagent K**

## 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	Code: 8450 Product name: Reagent K
1.2. Relevant identified uses of the substance or mixture and uses advised against	Determination of potassium in Water Samples. Restricted to professional use.
1.3. Details of the supplier of the safety data sheet	Manufacturer/Supplier: <b>ZOOLEK Andrzej Mikula</b> ul. Wyspiańskiego 27 94-028 Łódź  tel +48426534457 fax +48426534457 e-mail: biuro@zoolek.pl
1.4. Emergency telephone number	Bureau for Chemical Substances: 48 42 2538 424

## 2. Hazard identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Toxicity, Oral (Category 3), H301

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

### 2.2. Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word: Warning

Hazard Statement(s)

H301, Toxic if swallowed.

Precautionary statement(s)

P102, Keep out of reach of children.

P264, Wash hands thoroughly after handling.

P301+P330+P331, IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P301+P312, IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P501, Dispose of contents/container in accordance with local/regional/national/international regulations.

Name: **Reagent K****2.3. Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**3. Composition/information on ingredients****3.1 Substances**

Information not relevant.

**3.2 Mixtures**

CAS-No.	EC-No.	Index-No.	Conc. %	Chemical name	Classification 1272/2008 (CLP)
143-66-8	205-605-5	-	5-9,9	Sodium tetraphenyl borate	Acute Tox. 3, H301

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

**4. First aid measures****4.1. Description of first aid measures**

**SKIN:** In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

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

**INHALATION:** After inhalation: fresh air.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

**5. Firefighting measures****5.1. Extinguishing media**

*Suitable extinguishing equipment*

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

*Unsuitable extinguishing equipment*

Do not use direct sharp water stream, which may not be effective in extinguishing the fire.

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

*Hazard caused by exposure in the event of fire*

Do not breathe combustion product. Not combustible, Fire may cause evolution of carbon oxides.

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**5.3 Advice for firefighter***General information*

Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

*Special protective equipment for fire-fighters*

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear suitable protective equipment (including protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

**6.3. Methods and material for containment and cleaning up**

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other section**

For disposal see section 13.

**7. Handling and storage****7.1. Precautions for safe handling***Advice on protection against fire and explosion*

Ensure there is an adequate earthing system for equipment and personnel.

*Hygiene measures*

Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

**7.2. Conditions for safe storage, including any incompatibilities***Storage conditions*

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

**7.3. Specific end use(s)**

Information not available.

Name: **Reagent K****8. Exposure controls/personal protection****8.1. Control parameters**

Component	NDS	NDSch
Sodium tetraphenyl borate	-	-

**8.2. Exposure controls****8.2.1. Appropriate engineering controls**

No special ventilation is required. Efficient general ventilation should be sufficient to control worker exposure to contamination. If this product contains components of limited exposure, use process barriers, local fume hoods, or other engineering controls to keep the exposure below recommended or legal limits

**8.2.2. Individual protection measures, such as personal protective equipment****8.2.2.1. Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

**8.2.2.2. Skin protection***Hand protection*

Work with this product using gloves. Gloves should be inspected before use. Use proper glove removal technique (without touching glove outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable regulations and Good Laboratory Practice. Wash and dry your hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686 / EEC and the standard EN 374 derived from it.

*Other*

Complete suit protecting against chemicals, flame retardant anti-static protective suit. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**8.2.2.3. Respiratory protection**

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds 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.

**8.2.3. Environmental exposure controls**

Prevent from reaching sewage system, surface and ground waters.

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**9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Form:	solid
Colour:	white
Odour:	odourless
Odour threshold:	No data available
pH:	7-8 (10% at 20°C)
Melting point/freezing point:	No data available
Initial boiling range:	No data available
Boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Lower inflammability limit.	No data available
Upper inflammability limit.	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Solubility:	50 g/l
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

**9.2 Other information**

No data available

**10. Stability and reactivity****10.1. Reactivity:** No data available**10.2. Chemical stability:** The product is chemically stable under standard ambient conditions (room temperature).**10.3. Possibility of hazardous reactions:** No data available**10.4. Conditions to avoid:** High temperature, directly sunlight.**10.5. Incompatible materials:** strong oxidants**10.6. Hazardous decomposition products:** No data available

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## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - male and female – 288 mg/kg

#### Skin corrosion/irritation

No data available

#### Serious eye damage/irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

No data available

#### Reproductive toxicity

No data available

#### STOT-single exposure

No data available

#### STOT-repeated exposure

No data available

#### Aspiration hazard

No data available

## 12. Ecological information

### 12.1. Toxicity

Toxicity to aquatic toxicity

EC50 – Daphnia magna – 32 mg/l - 48h

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6. Other adverse effects

No interference with wastewater treatment plants are to be expected when used properly. Discharge into the environment must be avoided.

## 13. Disposal considerations

### 13.1. Waste treatment methods

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Dispose of contents / container in accordance with local regulations

**14. Transport information****14.1. UN number:** Not subject to regulations**14.2. UN proper shipping name:** -**14.3. Transport hazards class(es):** -**14.4. Packing group:** -**14.5. Environmental hazards:** Non-environmentally hazardous**14.6. Transport in bulk according to Annex II of Marpol and the IBC Code:** The cargo is not intended to be carried in bulk.**15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of :

Regulation (EC) 1907/2006 (REACH) of the European Parliament

Regulation (EC) 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this substance.

**16. Other information**

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

H301, *Toxic if swallowed.*

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version.

Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemicals products.