

# POCH Safety Data Sheet

According to EC Directive 2001/58/CE. Creation date / last update: 2002-10-15 / 2004-08-17

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

### **POTASSIUM NITRATE**

Catalogue Numbers: *pure-738910421; pure p. a.-738910115; technical-738910994;*

Use of the substance / preparation: reagent for analysis or synthesis

POCH SA

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## 2. Hazard identification

*Contact with combustible material may cause fire.*

## 3. Composition/information on ingredients

Synonyms: *nitric acid potassium salt*

CAS-No.: 7757-79-1

Molecular mass: 101.11

Molecular formula:  $KNO_3$

WE Number: 231-818-8

## 4. First aid measures

After eye contact: *rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist.*

After skin contact: *wash off with plenty of water. Take off contaminated clothing.*

After swallowing: *make victim drink plenty of water. Induce vomiting. Immediately summon doctor.*

After inhalation: *fresh air*

## 5. Fire-fighting measures

Suitable extinguishing media: *water*

Special risk: *fire- promoting. Keep away from combustible materials. Development of hazardous gases or vapours possible in the event of fire: nitrogen oxides.*

Special protective equipment for fire fighting:

Other information: *non-combustible*

Prevent fire-fighting water from entering surface water or groundwater. Cool container with spray water from a safe distance.

Contain escaping vapours with water.

## 6. Accidental release measures

*Take up dry. Forward for disposal. Clean up affected area.*

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### 7. Handling and storage

Handling: *Use with adequate ventilation. Use of the basic principles of Industrial Hygiene. Use according to good industry practice. Work under hood. Do not inhale substance. Do not empty into sewerage system. Use protective equipment according to p.8. Avoid skin contact.*

Storage: *keep away from flammable substances and sources of ignition and heat. Room temperature (At +15 to +25 deg C).*

### 8. Exposure controls/personal protection

Specific control parameter: *no determined.*

*Provide exhaust ventilation. Ensure the eye wash station and safety showers. Protective equipment should be selected for the working place, depending on concentration and quantity of the hazardous product handled. The resistance of the protective clothing to chemicals should be ascertained with respective supplier.*

Personal protective equipment:

respiratory protection: *required when dusts are generated - respiratory protection*

eye protection: *required - safety goggles.*

hand protection: *required - protective clothing.*

body protection: *required - protective clothing.*

industrial hygiene: *immediately change contaminated clothing. Apply skin - protective barrier cream. Wash hands and face after working with substance.*



### 9. Physical and chemical properties

Form: *solid*

Colour: *white*

Odour: *odourless*

pH value: *5,5 - 8,0 (r-r 50 g/l H<sub>2</sub>O)*

Melting point: *334°C*

Boiling point: *termic decomposition 400°C*

Ignition temperature: *not applicable*

Flash point: *not applicable*

Explosion limit: *not applicable*

lower:

upper:

dynamic viscosity:

kinematical viscosity:

Vapour pressure: *not applicable*

Density: *2,11 g/cm<sup>3</sup> (20°C)*

Bulk density: *~ 800 kg/m<sup>3</sup>*

Solubility:

in water: *320 g/l (20°C), 2470 g/l (100°C)*

in organic solvents: *not available*

log P(w/o):

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### 10. Stability and reactivity

Conditions to be avoided: *no special requirements*

Substances to be avoided: *combustible, organic compounds, sulfur, boronon (in elevated temperature), carbon, phosphide, phosphorusu, magnesiumu (risk of explosion).*

Hazardous decomposition products: *nitric oxides*

Other information: *no further informations*

### 11. Toxicological information

Toxicological information: *LD50 (oral rat): 2000 mg/kg*

Other information: *After swallowing: irritations of mucous membranes, nausea, vomiting, diarrhoea; After swallowing of large quantities - headache, cardiac arrhythmia, drop in blood pressure, dyspnoea, and spasms, blue discoloration of the blood; After eye contact: irritations*

### 12. Ecological information

*Toxic for aquatic organisms. Do not allow to enter waters, waste water or soil!*

### 13. Disposal considerations

*POCh product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Handle contaminated packing in the same way as the substrate itself. Always contact a permitted waste disposal to assure compliance with all current local, state and federal regulations.*

### 14. Transport information

ADR Class and package group: *5.1,III*

UN Number: *1486*

Name (acc. to UN): *potassium nitrate*

### 15. Regulatory information

*Labelling according to EC Directives.*

Symbol: *O; Oxidizing.*

R-phrases: *8; Contact with combustible material may cause fire.*

S-phrases: *16-41; Keep away from sources of ignition - No smoking. In case of fire and/or explosion do not breathe fumes.*

### 16. Other information

*Reason for alteration: general update.*

*Informations contained in this SDS while accurate to the best knowledge*

