

Trade name: Kaliumnitrat/Sigma-Aldrich GmbH

Date revised: 28.05.09

Dangerous substance number: 714832

Version: 1 / CH

Date of printing: 28.05.09

01. Identification of the substance/preparation and of the company/undertaking

Trade name

Kaliumnitrat/Sigma-Aldrich GmbH

Item-No. 71483204

Company/undertaking identification

Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. 0041 (0)71 353 58 58

Emergency 0041 (0)44 251 51 51

telephone

02. Hazards identification

Hazard symbols

O Oxidizing

R phrases

8 Contact with combustible material may cause fire.

03. Composition / information on ingredients

Hazardous ingredients

potassium nitrate

CAS no. 7757-79-1

EINECS no. 231-818-8

04. First aid measures

After inhalation

Ensure supply of fresh air.

After skin contact

Remove contaminated, soaked clothing immediately and dispose of safely.. In case of contact with skin wash off immediately with plenty of water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).. Seek medical aid immediately.

After ingestion

Drink water in small gulps.. By continuous complaints consult a physician.

05. Fire-fighting measures

Suitable extinguishing media

Extinguishing measures to suit surroundings

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases

The product is not combustible.; The product supports fire.; If a fire breaks out nearby evolution of dangerous gases possible.; In the event of fire the following can be released:; Nitrous gases (NOx)

Special protective equipment for fire-fighting

Use self-contained breathing apparatus.

Other information



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Do not discharge into surface waters/groundwater.. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

06. Accidental release measures

Personal precautions

Avoid dust formation.. Do not inhale dust.. Avoid contact with skin, eyes and clothing.

Environmental precautions

Do not allow to enter drains.

Methods for cleaning up

Pick up mechanically.. When picked up, treat material as prescribed under heading "Disposal".. Clean up affected area.

07. Handling and storage

Storage

Further information on storage conditions

Keep container tightly closed and dry.. Keep away from sources of ignition.. Protect from warmth.

08. Expose controls/personal protection

General protective and hygiene measures

Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work.

Occupational exposure controls

Respiratory protection

Breathing apparatus in the event of aerosol.

Hand protection

Gloves

Appropriate Material	nitrile		
Material thickness		0.11	mm
Penetrating time	>	480	min

Eye protection

necessary

09. Physical and chemical properties

General information

Form	solid
Colour	white
Odour	odourless

Important health, safety and environmental information

Flash point

Value		°C
Remarks	Oxidizing	

Boiling point

Value		°C
Remarks	Oxidizing	

Melting point

Value	appr. 334	°C
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Bulk density



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Value	appr.	800		kg/m ³
Solubility in water				
Value		320		g/l
temperature		20	°C	
pH				
Value		4.5	to	8.5
Concentration/H ₂ O		50	g/l	
temperature		20	°C	

10. Stability and reactivity

Materials to avoid

Reactions with combustible substances., Reactions with organic substances., peroxides, Nitrites, Fluorine, Halogens, Magnesium, Reactions with sulphur and sulfides, phosphorus., Risk of ignition or formation of inflammable gases or vapours with:., calcium silicide

11. Toxicological information

Acute toxicity / further data

Acute oral toxicity

Species	rat		
LD50		3015	mg/kg
Source	IUCLID		

Irritant/corrosive effects

Irritant effect on eyes

valuation slightly irritant

Effects after repeated or prolonged exposition (subacute, subchronic, cronic)

Experience in practice

After Swallowing: Irritates the mucous membrane.. nausea. vomiting

Other information

Observe the usual precautions for handling chemicals.

12. Ecological information

Fish toxicity

Species	guppy (Poecilia reticulata)		
LC50	191		mg/l
Duration of exposure	96	h	

Daphnia toxicity

Species	Daphnia magna		
EC50	490		mg/l
Duration of exposure	48	h	
Source	IUCLID		

Biodegradability

Remarks Inorganic product, cannot be eliminated from the water by biological purification processes.

General information / ecology

Do not allow it to reach ground water, water bodies or sewage system.

13. Disposal considerations

Disposal recommendations for the product



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Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

14. Transport information**Land transport ADR/RID**

UN number	1486
Class	5.1
Packing group	III
Label	5.1
Technical name	POTASSIUM NITRATE

Marine transport IMDG/GGVSee

UN number	1486
Class	5.1
Packing group	III
Technical name	POTASSIUM NITRATE

Air transport ICAO/IATA

UN number	1486
Class	5.1
Packing group	III
Technical name	POTASSIUM NITRATE

15. Regulatory information**Labelling in accordance with EC directives**

The product does not require a hazard warning label in accordance with EC directives/the relevant national laws.

Hazard symbols

O Oxidizing

Hazardous component(s) to be indicated on label**R phrases**

8 Contact with combustible material may cause fire.

S phrases

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

16. Other information

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.