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

1.1 Product identifier

Trade name : Patentkali[®]

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

Use of the Substance/Mixture : Fertilizers

1.3 Details of the supplier of the safety data sheet

Company : K+S KALI GmbH

Bertha-von-Suttner-Str. 7

34131 Kassel Germany

Telephone : +49-(0)561-9301-0
Telefax : +49-(0)561-9301-1753
E-mail address : info@kali-gmbh.com

1.4 Emergency telephone number

Giftinformationszentrale Nord, Göttingen, Germany

Telephone:+49 (0)551 19240

2. Hazards identification

2.1 Classification of the substance or mixture

Classification(67/548/EEC,1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Labelling(REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Labelling according to EC Directives (67/548/EEC)

Further information : The product does not need to be labelled in accordance with

EC directives or respective national laws.

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

3. Composition/information on ingredients

3.2 Mixtures

Hazardous components



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Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Contains no hazardous ingredients according to GHS :				
Potassium Sulfate (K ₂ SO ₄)	7778-80-5 231-915-5 01- 2119489441- 34-0018	-		> 48
Magnesium Sulphate (MgSO ₄)	7487-88-9 231-298-2			> 29

4. First aid measures

4.1 Description of first aid measures

General advice : Get medical attention if symptoms occur.

Show this safety data sheet to the doctor in attendance.

If inhaled : If breathed in, move person into fresh air.

In case of skin contact : Rinse with water.

In case of eye contact : Immediately flush eye(s) with plenty of water.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : For specialist advice physicians should contact the Poisons

Information Service.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : The product is not flammable.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing media : none

5.2 Special hazards arising from the substance or mixture

Specific hazards during : Heating or fire can release toxic gas.

firefighting Sulphur oxides

5.3 Advice for firefighters

Special protective equipment : Respiratory protection



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for firefighters

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid breathing dust.

6.2 Environmental precautions

Environmental precautions : Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use a suitable vacuum cleaner.

After cleaning, flush away traces with water.

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid creating dust.

Advice on protection against

: The product is not flammable.

fire and explosion

No special protective measures against fire required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas : Keep in a dry place.

and containers

Advice on common storage : No special restrictions on storage with other products.

German storage class : 13 Non Combustible Solids

Other data : Stable under recommended storage conditions.

7.3 Specific end uses

: Not relevant

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

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Provide adequate ventilation.

Personal protective equipment

Respiratory protection : Effective dust mask.

Hand protection : not required under normal use

Eye protection : Safety glasses

Skin and body protection : No special protective equipment required.

Wear suitable protective clothing.

Hygiene measures : When using do not eat or drink.

Wash hands before breaks and at the end of workday.

Protective measures : Do not breathe dust.

Environmental exposure controls

General advice : Do not let product enter drains.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : granular

Colour : light grey

pH : ca. 9 - 10, 25 °C, Aqueous solution

Boiling point/boiling range : Not applicable Flash point : Not applicable

Flammability (solid, gas) : The product is not flammable.

Lower explosion limit : Not applicable
Upper explosion limit : Not applicable
Vapour pressure : Not applicable

Water solubility : soluble

Partition coefficient: n- : no data available

octanol/water

Autoignition temperature : Not applicable
Ignition temperature : Not applicable
Explosive properties : Not applicable
Oxidizing properties : Not applicable

9.2 Other information

Bulk density : ca. 1.190 kg/m³



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10. Stability and reactivity

10.1 Reactivity

Stable

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Hazardous decomposition

products

No decomposition if stored and applied as directed.

Heating or fire can release toxic gas.

Sulphur oxides

11. Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity : The substance or mixture has no acute oral toxicity,

Contains no hazardous ingredients according to GHS

Acute inhalation toxicity : The substance or mixture has no acute inhalation toxicity,

Contains no hazardous ingredients according to GHS

Acute dermal toxicity : The substance or mixture has no acute dermal toxicity,

Contains no hazardous ingredients according to GHS

Skin corrosion/irritation : Result: No skin irritation, Contains no hazardous ingredients

according to GHS

Serious eye damage/eye

irritation

: Result: non-irritant, Contains no hazardous ingredients

according to GHS

Respiratory or skin

sensitization

: Result: Does not cause skin sensitization., Contains no

hazardous ingredients according to GHS

: Result: Does not cause respiratory sensitization., Contains no

hazardous ingredients according to GHS

Carcinogenicity : Contains no ingredient listed as a carcinogen

Reproductive toxicity : Contains no ingredient listed as toxic to reproduction

Teratogenicity : Contains no ingredient listed as toxic to reproduction

STOT - single exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, single exposure.

Remarks: Contains no hazardous ingredients according to



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GHS

STOT - repeated exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, repeated exposure.

Remarks: Contains no hazardous ingredients according to

GHS

Further information : The product contains no substances classified as hazardous

> to health in concentrations which should be taken into account., Health injuries are not known or expected under

normal use.

12. Ecological information

12.1 Toxicity

Product:

Toxicity to fish

Toxicity to daphnia and other

aquatic invertebrates.

Toxicity to algae

Toxicity to bacteria

Toxicity to fish(Chronic

toxicity)

Toxicity to daphnia and other

aquatic

invertebrates.(Chronic

toxicity)

Contains no hazardous ingredients according to GHS

12.2 Persistence and degradability

Product:

Biodegradability

Not applicable

12.3 Bioaccumulative potential

Product:

Bioaccumulation

Not applicable

12.4 Mobility in soil

Product:

Physico-chemical : Not applicable

removability

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This mixture contains no substance considered to be

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persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very

persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

Product:

Adsorbed organic bound

halogens (AOX)

: Not applicable

13. Disposal considerations

13.1 Waste treatment methods

Product : Check if agriculture use is possible.

Contaminated packaging : Contaminated packaging should be emptied as far as possible;

then it can be passed on for recycling after being thoroughly

cleaned.

14. Transport information

14.1 Land transport

<u>ADR</u>

Remarks : Not a dangerous substance as defined in the above regulations.

Tunnel restriction code : Not relevant

14.2 Sea transport

<u>IMDG</u>

Remarks : Not classified as dangerous in the meaning of transport

regulations.

14.3 Air transport

IATA-DGR

Remarks : Not classified as dangerous in the meaning of transport

regulations.

14.4 Special precautions for user

Not relevant

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

15. Regulatory information

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

Water contaminating class

(Germany)

: WGK 1 slightly water endangering

Notification status



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(REACH).

REACH

: This mixture contains only ingredients which have been registered, or are exempt from registration, according to Regulation (EC) No. 1907/2006 (REACH).

This mixture contains no ingredient which is subject to an authorisation according to Regulation (EC) No. 1907/2006

15.2 Chemical Safety Assessment

Not relevant

16. Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.