



potassium chloride

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Date of issue: 23/07/2018

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Version: 6.2

SECTION 1: Identification of the hazardous chemical and of the supplier

1.1 Product identifier

Trade name : k-Drill@C6
k-Drill@C9
Potassium Chloride 99% KCl
Potassium Chloride 99,3% KCl
Potassium Chloride 99,9% KCl

Chemical name : potassium chloride

Product form : Substance

CAS-No. : 7447-40-7

1.2 Other means of identification

No additional information available

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

Recommended use : Industrial use
Fertilizers

1.4 Supplier's details

Manufacturer

K+S KALI GmbH
Bertha-von-Suttner-Str. 7
P.O. Box 10 20 29
34111 Kassel - Germany
T (+49) 561 9301-0 - F (+49) 561 9301-1753

Email competent person

sds@kft.de

1.5 Emergency phone number

Emergency number : For Hazardous Materials [or Dangerous Goods] Incidents
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

9.3B Ecotoxicity to terrestrial vertebrates B
6.1E Acute toxicity (oral), Category 5
6.3B Skin corrosion/irritation, Category 3
6.4A Serious eye damage/eye irritation, Category 2

2.2 Label elements

Hazard pictograms (GHS NZ) :



GHS07

GHS09

Signal word (GHS NZ) :

Warning

Hazard statements (GHS NZ) :

H303 - May be harmful if swallowed
H316 - Causes mild skin irritation
H319 - Causes serious eye irritation.
H432 - Toxic to terrestrial vertebrates

Prevention :

P264 - Wash hands, forearms and face thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.

Response :

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER/doctor if you feel unwell.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P391 - Collect spillage.

Disposal :

P501 - Dispose of contents/container to hazardous or special waste collection point, in

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accordance with local, regional, national and/or international regulation

2.3. Other hazards not contributing to the classification

No additional information available

SECTION 3: Composition and information of the ingredients of the hazardous chemical

3.1. Substances

Chemical name : potassium chloride

Name	Product identifier	%	Classification according to GHS NZ
potassium chloride (Main constituent)	(CAS-No.) 7447-40-7	> 95	9.3B: Ecotoxicity to terrestrial vertebrates B, H432 6.1E: Acute Tox. 5 (Oral), H303 6.3B: Skin Irrit. 3, H316 6.4A: Eye Irrit. 2, H319

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.
Unsuitable extinguishing media : No information available.

5.2. Special hazards arising from the substance or mixture

Reactivity : Product is stable

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information : Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

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SECTION 7: Handling and storage, including how the chemical may be safely used

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.
Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

Exposure limit values for the other components

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : In case of repeated or prolonged contact wear gloves. EN 374. Nitrile rubber
Eye protection : In case of dust production: protective goggles
Skin and body protection : Wear suitable protective clothing
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Dust production: dust mask with filter type P2. EN 143

SECTION 9: Physical and chemical properties

Physical state : Solid
Appearance : Crystalline powder.
Colour : white
Odour : none to slight
Odour threshold : No data available
pH : 8 - 11 (Aqueous solution)
Evaporation rate : Relative evaporation rate (butylacetate=1) : Not applicable
Relative evaporation rate (butylacetate=1) : Not applicable
Melting point / Freezing point : Melting point : 770 °C
Freezing point : Not applicable
Boiling point : Not applicable
Flash point : Not applicable
Auto-ignition temperature : Not applicable
Decomposition temperature : Not applicable
Flammability (solid, gas) : Not flammable
Vapour pressure : Vapour pressure : Not applicable
Relative density : Relative vapour density at 20 °C : Not applicable
Density : Density : 1.989 g/cm³
Relative density : Not applicable
Solubility : Water : 300 g/l (20 °C)
Log Pow : Not applicable
Viscosity, kinematic : Not applicable
Viscosity, dynamic : Not applicable
Explosive properties : Product is not explosive.
Oxidising properties : Non oxidizing
Explosive limits : Not applicable

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Minimum ignition energy : No data available

SECTION 10: Stability and reactivity

Reactivity : Product is stable.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.
Conditions to avoid : None under recommended storage and handling conditions (see section 7).
Incompatible materials : No additional information available.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Oral: May be harmful if swallowed.
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

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LD50 oral rat	3020 mg/kg
Skin corrosion/irritation	: Causes mild skin irritation. pH: 8 - 11 (Aqueous solution)
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Not applicable)

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified (Based on available data, the classification criteria are not met)
Chronic aquatic toxicity : Not classified (Based on available data, the classification criteria are not met)
Soil toxicity : Not classified (Based on available data, the classification criteria are not met)
Terrestrial vertebrate toxicity : Toxic to terrestrial vertebrates.
Terrestrial invertebrate toxicity : Not classified (Based on available data, the classification criteria are not met)

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LC50 fish 1	880 mg/l (Pimephales promelas)
EC50 Daphnia 1	440 mg/l (daphnia magna)
EC50 72h algae (1)	> 100 mg/l
Log Pow	Not applicable
LD50 oral rat	3020 mg/kg

12.2. Persistence and degradability

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Persistence and degradability	Not applicable.
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12.3. Bioaccumulative potential

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Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	Not applicable.

12.4. Mobility in soil

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Mobility in soil	No additional information available
Log Pow	See section 12.1 on ecotoxicology
Ecology - soil	Not applicable.

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12.5. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)
Other adverse effects : No additional information available.

SECTION 13: Disposal considerations

Waste treatment methods : Disposal must be done according to official regulations. Do not dispose of with domestic waste. Do not discharge into drains or the environment.

SECTION 14: Transport information

IMDG	IATA	UNRTDG
14.1. UN number		
Not regulated for transport		
Not applicable	Not applicable	
14.2. Proper Shipping Name		
Not applicable	Not applicable	
14.3. Transport hazard class(es)		
Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	
14.5. Environmental hazards		
Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

UN RTDG

No data available

IMDG

No data available

IATA

No data available

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

Not applicable

14.8. Hazchem or Emergency Action Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR003261

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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Abbreviations and acronyms : IMDG - International Maritime Dangerous Goods
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
IATA - International Air Transport Association
GHS - Globally Harmonised System of Classification and Labelling of Chemicals
CAS - Chemical Abstract Service
LD50 - Median lethal dose
LC50 - Median lethal concentration
PBT - Persistent Bioaccumulative Toxic
vPvB - Very Persistent and Very Bioaccumulative
ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL - Derived Minimal Effect level
DNEL - Derived-No Effect Level
EC50 - Median effective concentration
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
LOAEL - Lowest Observed Adverse Effect Level
NOAEC - No-Observed Adverse Effect Concentration
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration
OECD - Organisation for Economic Co-operation and Development
PNEC - Predicted No-Effect Concentration
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS - Safety Data Sheet
STP - Sewage treatment plant
TLM - Median Tolerance Limit

Full text of H-statements:

6.1E: Acute Tox. 5 (Oral)	6.1E: Acute toxicity (oral), Category 5
6.3B: Skin Irrit. 3	6.3B: Skin corrosion/irritation, Category 3
6.4A: Eye Irrit. 2	6.4A: Serious eye damage/eye irritation, Category 2
9.3B: Ecotoxicity to terrestrial vertebrates B	9.3B: Ecotoxicity to terrestrial vertebrates B
H303	May be harmful if swallowed
H316	Causes mild skin irritation
H319	Causes serious eye irritation.
H432	Toxic to terrestrial vertebrates

KFT SDS NZ 07

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product