



# MOP (Muriate of Potash)

## Safety Data Sheet

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

Issue date: 14/09/2020

Revision date: 14/09/2020

Supersedes: 01/11/2019

Version: 11.0

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

#### 1.1 Product identifier

Trade name : 60er Kali® fine  
60er Kali® dustfree  
60er Kali® standard  
SOLUMOP®  
SOLUMOP® Spezial  
60er Kali® gran  
60er Kali® gran. B pink  
Absiebkali  
60er Kali® coarse  
MOP gran B pink  
MOP standard  
61er Kali

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 : Fertilisers

#### 1.4 Supplier's details

##### Manufacturer

K+S Minerals and Agriculture GmbH  
7 Bertha-von-Suttner-Str.  
34131 Kassel - Germany  
T (+49) 561 9301-0 - F (+49) 561 9301-1753

##### Importer

##### 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

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

#### 2.2. Label elements

##### GHS NZ labelling

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.

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Prevention	: H432 - Toxic to terrestrial vertebrates : P264 - Wash hands, forearms and face thoroughly after handling. : 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 a hazardous or special waste collection point.

### 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	-	6.1E: Acute Tox. 5 (Oral), H303 6.3B: Skin Irrit. 3, H316 6.4A: Eye Irrit. 2, H319 9.3B: Ecotoxicity to terrestrial vertebrates B, H432

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	: Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Strong water jet.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released. Metal oxides.

### 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".

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### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

For containment : Collect spillage.  
Methods for cleaning up : Mechanically recover the product. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

## 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. Protect from moisture.  
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. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear  
Eye protection : In case of dust production: protective goggles. EN 166  
Skin and body protection : Wear suitable protective clothing. EN 340  
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. EN 143. Short term exposure. Dust production: dust mask with filter type P2. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust

## SECTION 9: Physical and chemical properties

Physical state : Solid  
Appearance : Crystalline solid. Granulate.  
Colour : white. almost colourless to reddish.  
Odour : none to slight.  
Odour threshold : No data available  
pH : 8 – 11 (Aqueous solution)  
Relative evaporation rate (butylacetate=1) : Not applicable  
Melting point : 770 °C  
Freezing point : Not applicable  
Boiling point : No data available  
Flash point : Not applicable  
Auto-ignition temperature : Not applicable  
Decomposition temperature : No data available  
Flammability (solid, gas) : Non flammable.  
Vapour pressure : Not applicable  
Relative vapour density at 20 °C : Not applicable  
Relative density : No data available  
Density : 1.984 g/cm<sup>3</sup>

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Solubility	: Water: 355 g/l (25°C)
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Not applicable
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: Not applicable

### SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
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)	: 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)

<b>potassium chloride (7447-40-7)</b>	
LD50 oral rat	3020 mg/kg bodyweight

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)

<b>potassium chloride (7447-40-7)</b>	
Viscosity, kinematic	No data available

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: Toxic to terrestrial vertebrates.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: 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)

<b>potassium chloride (7447-40-7)</b>	
LC50 fish 1	880 mg/l (96h; Pimephales promelas; (OECD 203 method))
EC50 Daphnia 1	440 mg/l (48h; Daphnia magna; (OECD 202 method))
EC50 72h algae	> 100 mg/l (72 h; Desmodesmus subspicatus; (OECD 201 method))
NOEC chronic algae	> 100 mg/l (72 h; Desmodesmus subspicatus; (OECD 201 method))
LD50 oral mouse	383 mg/kg
LD50 oral rat	3020 mg/kg bodyweight

#### 12.2. Persistence and degradability

<b>potassium chloride (7447-40-7)</b>	
Persistence and degradability	Not applicable.

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### 12.3. Bioaccumulative potential

potassium chloride (7447-40-7)	
Bioaccumulative potential	Not applicable.

### 12.4. Mobility in soil

potassium chloride (7447-40-7)	
Mobility in soil	Expected to be highly mobile in soil
Ecology - soil	Not applicable.

### 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. Product is used as a fertilizer. Check the possibility for agricultural use before landfilling.
Product/Packaging disposal recommendations	: Recycle or dispose of in compliance with current legislation.

## SECTION 14: Transport information

IMDG	IATA	UNRTDG
<b>14.1. UN number</b>		
Not regulated for transport		
<b>14.2. Proper Shipping Name</b>		
Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>		
Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>		
Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>		
Not applicable	Not applicable	Not applicable
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

Group standard : Fertilisers

#### Agricultural Compounds and Veterinary Medicines (ACVM) Act 1997

Other information on relevant regulations : Listed on NZIoC (New Zealand Inventory of Chemicals). This safety data sheet is for informational purposes only and does not comply with national legal requirements without reference to a national distributor. The national distributor is responsible for a legally compliant safety data sheet.

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### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Issue date : 14/09/2020  
Revision date : 14/09/2020  
Supersedes : 01/11/20190

Indication of changes:

Section	Changed item	Change	Comments
	Name	Modified	SDS Header
1	Trade name	Modified	
2.2	Precautionary statements (GHS NZ)	Removed	P273
9	Paint	Modified	
9	Appearance	Added	
15	Regulatory information	Added	

Data sources : Information provided by the manufacturer. ECHA (European Chemicals Agency).

Department issuing data specification sheet: : KFT Chemieservice GmbH  
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Abbreviations and acronyms : ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
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  
IMDG - International Maritime Dangerous Goods  
LC50 - Median lethal concentration  
LD50 - Median lethal dose  
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  
PBT - Persistent Bioaccumulative Toxic  
PNEC - Predicted No-Effect Concentration  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
SDS - Safety Data Sheet  
STP - Sewage treatment plant  
TLM - Median Tolerance Limit  
vPvB - Very Persistent and Very Bioaccumulative

Other information : The versioning of the safety data sheet for this product begins with the version number 10.0 due to a change of the company's name on November 1, 2019.

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

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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.*