



# MOP standard (Bethune)

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Issue date: 2022-10-14 Revision date: 2022-12-14 Supersedes: 2022-10-14 Version: 20.2

### SECTION 1: Identification

#### 1.1. Product identifier

Product form	: Substance
Trade name	: MOP standard (Bethune)
Substance type	: Mono-constituent
Type of product	: Fertilizer
CAS-No.	: 7447-40-7
Product code	: K0130
Formula	: KCl
Product group	: Fertilizers

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

##### Manufacturer

K+S Minerals and Agriculture GmbH  
7 Bertha-von Suttner-Str.  
Kassel, 34131  
Deutschland  
T +49 561 9301- 0  
[info@k-plus-s.com](mailto:info@k-plus-s.com) - [www.kpluss.com](http://www.kpluss.com)

#### 1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call : for incidents involving hazardous materials [or dangerous goods] spill, leak, fire, exposure or accident, call CHEMTREC 24hr/day 7days/week  
Within USA and Canada: +1 800 424 - 9300  
Outside USA and Canada: +1 703 741 - 5970  
(collect calls accepted)

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS CA)

Not classified

#### 2.2. GHS Label elements, including precautionary statements

##### GHS CA labelling

No labelling applicable

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS CA)

No data available

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Substance type	: Mono-constituent
Name	: MOP std ex BT
CAS-No.	: 7447-40-7
EC-No.	: 231-211-8

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Name	Chemical name/Synonyms	Product identifier	%	Classification (GHS CA)
Potassium chloride	camcopot / chloride of potash / chloropotassuril / chlorvescent / diffu-K / dipotassium dichloride / emplets potassium chloride / enseal / enseal potassium chloride / kalcorid / kaleorid / kalitabs / kalium duriles / kaochlor / kaon-Cl / kaon-Cl 10 / kaon-Cl tabs / kaskay / kay ciel / kayback / kay- cee-l / K-contin / K-lor / klor-con / klotrix / K-lyte/Cl / K-norm / K- predne-dome / K- prende-dome / K- tab / lento-kalium / leo K / micro K / monopotassium chloride / muriate of potash / nat- sylvite / natural sylvite / neobakasal / nu-K / peter-kal / pfiklor / potassium chloride / potassium monochloride / potassium muriate / potavescent / rekawan / repone K / slow-K / slow- K tablets / span-K / super K / sylvine / sylvite / tripotassium trichloride	CAS-No.: 7447-40-7	97	Not classified

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

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### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

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.
First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.

#### 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

#### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

Suitable extinguishing media : Adapt extinguishing media to the environment for surrounding fires. Water spray. Foam. Dry powder.

#### 5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Strong water jet.

#### 5.3. Specific hazards arising from the hazardous product

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

#### 5.4. Special protective equipment and precautions for fire-fighters

Precautionary measures fire : 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

#### 6.2. Methods and materials 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.

Other information : Disposal must be done according to official regulations.

#### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

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### SECTION 7: Handling and storage

#### 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.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

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

#### 8.3. Individual protection measures/Personal protective equipment

##### Hand protection:

In case of repeated or prolonged contact wear gloves. Protective gloves against chemicals (EN 374). Nitrile rubber gloves. 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

##### 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 inadequate ventilation] wear respiratory protection. EN 143. Short term exposure. Dust production: dust mask with filter type P2. Respiratory protection should only be used to control the residual risk during short-term activities if all practically feasible steps to reduce the hazard at the source have been followed, e.g. by restraint and/or local exhaust ventilation. For details on conditions of use and maximum concentrations of use, see DGUV Regulation 112-190 - Use of respiratory protective equipment.

#### Personal protective equipment symbol(s):



### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid  
Appearance : Granular solid.

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Colour	: Mixture contains one or more component(s) which have the following colour(s): White
Odour	: none to slight
Odour threshold	: No data available
pH	: 9 – 11
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20°C	: Not applicable
Relative density	: No data available
Density	: 1.989 g/cm <sup>3</sup>
Solubility	: Water solubility. Water: 300 g/l at 20 °C
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: The product is not explosive. Is not classified according to Regulation (EU) 2019-1148.
Explosive limits	: No data available

### 9.2. Other information

Minimum ignition energy	: Not applicable
VOC content	: Not applicable (inorganic)
Bulk density	: ≈ 1200 kg/m <sup>3</sup>
Other properties	: Neutral reaction.

## 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 additional information available
Conditions to avoid	: No additional information available
Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### MOP standard (Bethune) (7447-40-7)

LD50 oral rat	3020 mg/kg bodyweight (Rat, Female, Experimental value, Oral)
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#### Potassium chloride (7447-40-7)

LD50 oral rat	3020 mg/kg bodyweight (Rat, Female, Experimental value, Oral)
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Skin corrosion/irritation	: Not classified pH: 9 – 11
Serious eye damage/irritation	: Not classified pH: 9 – 11
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

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LC50 - Fish [1]	2010 mg/l (96 h, <i>Lepomis macrochirus</i> , Static system)
LC50 - Fish [2]	880 mg/l (EPA 600/4-90/027, 96 h, <i>Pimephales promelas</i> , Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	660 mg/l (EPA 600/4-90/027, 48 h, <i>Daphnia magna</i> , Static system, Fresh water, Experimental value, Nominal concentration)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, <i>Desmodesmus subspicatus</i> , Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	2500 mg/l ( <i>Scenedesmus subspicatus</i> , Biomass)

### 12.2. Persistence and degradability

MOP standard (Bethune) (7447-40-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

Potassium chloride (7447-40-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

### 12.3. Bioaccumulative potential

MOP standard (Bethune) (7447-40-7)	
Bioaccumulative potential	Not bioaccumulative.

Potassium chloride (7447-40-7)	
Bioaccumulative potential	Not bioaccumulative.

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### 12.4. Mobility in soil

#### MOP standard (Bethune) (7447-40-7)

Ecology - soil	No (test)data on mobility of the substance available.
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#### Potassium chloride (7447-40-7)

Surface tension	Data waiving
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Ecology - soil	Low potential for adsorption in soil.
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### 12.5. Other adverse effects

Ozone : Not classified

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Disposal must be done according to official regulations. Do not discharge into drains or the environment. Do not dispose of with domestic waste.  
Product/Packaging disposal recommendations : Recycle or dispose of in compliance with current legislation.

## SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (TDG) : Not applicable  
Proper Shipping Name (DOT) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable

### 14.3. Transport hazard class(es)

**TDG**  
Transport hazard class(es) (TDG) : Not applicable

**DOT**  
Transport hazard class(es) (DOT) : Not applicable

**IMDG**  
Transport hazard class(es) (IMDG) : Not applicable

**IATA**  
Transport hazard class(es) (IATA) : Not applicable

### 14.4. Packing group

Packing group (TDG) : Not applicable  
Packing group (DOT) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable



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### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### TDG

No data available

#### DOT

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

## SECTION 15: Regulatory information

### 15.1. National regulations

No additional information available

### 15.2. International regulations

No additional information available

## SECTION 16: Other information

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Supersedes : 10-14-2022

Safety Data Sheet (SDS), Canada

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.