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A Geno Technology, Inc. (USA) brand name

# Safety Data Sheet

Cat. # RC-123

Potassium Chloride; KCl

Size: 500g



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# potassium chloride

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/20/2016

Revision date: 05/11/2017

Version: 7.1

### SECTION 1: Identification

#### 1.1. Identification

Product form : Substance  
Substance name : potassium chloride  
CAS-No. : 7447-40-7  
Product code : 233P  
Formula : KCl  
Synonyms : camcopot / chloride of potash / chloropotassuril / chlorvescent / diffu-K / dipotassium dichloride / emplets potassium chloride / enseal / enseal potassium chloride / kalcid / kaleorid / kalitabs / kalium duriles / kaochlor / kaon-Cl / kaon-Cl 10 / kaon-Cl tabs / kaskay / kay ciel / kayback / kay-see-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  
BIG No : 14481

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

Use of the substance/mixture : Photographic chemical: component  
Chemical raw material  
Laboratory chemical  
Food industry: additive  
Fertiliser: raw material  
Veterinary medicine

#### 1.3. Supplier

Geno Technology, Inc./ G-Biosciences  
9800 Page Avenue  
Saint Louis, 63132-1429 - United States  
T 800-628-7730 - F 314-991-1504  
[technical@GBiosciences.com](mailto:technical@GBiosciences.com) - [www.GBiosciences.com](http://www.GBiosciences.com)

#### 1.4. Emergency telephone number

Emergency number : Chemtrec **1-800-424-9300** (USA/Canada), **+1-703-527-3887** (Intl)

### SECTION 2: Hazard(s) identification

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

##### GHS US classification

Not classified

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

##### GHS US labeling

No labeling applicable

#### 2.3. Other hazards which do not result in classification

No additional information available

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

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Substance type : Mono-constituent

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Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
potassium chloride (Main constituent)	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	100	Not classified

Full text of hazard classes and 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	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	: Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Victim is fully conscious: immediately induce vomiting. Call Poison Information Centre ( <a href="http://www.big.be/antigif.htm">www.big.be/antigif.htm</a> ). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

Potential Adverse human health effects and symptoms	: Slightly irritant to respiratory organs. Not irritant to eyes.
Symptoms/effects after inhalation	: AFTER INHALATION OF DUST/MIST: Slight irritation.
Symptoms/effects after skin contact	: Slight irritation.
Symptoms/effects after eye contact	: Not irritating.
Symptoms/effects after ingestion	: AFTER INGESTION OF HIGH QUANTITIES: Feeling of weakness. Gastrointestinal complaints. Nausea. Vomiting. Diarrhoea. Change in the haemogramme/blood composition. Cardiac and blood circulation effects. Low arterial pressure. Dizziness. Disturbances of heart rate. Cramps/uncontrolled muscular contractions. Disturbances of consciousness.
Chronic symptoms	: No effects known.

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam.
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### 5.2. Specific hazards arising from the chemical

Fire hazard	: DIRECT FIRE HAZARD: Non combustible.
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### 5.3. Special protective equipment and precautions for fire-fighters

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|--------------------------------|--|
| Precautionary measures fire    | : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows. |
| Firefighting instructions      | : Dilute toxic gases with water spray.   |
| Protection during firefighting | : Heat/fire exposure: compressed air/oxygen apparatus.   |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- |                                  |  |
|----------------------------------|--|
| Protective equipment             | : Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.                             |
| Emergency procedures             | : Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. |
| Measures in case of dust release | : In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.            |

#### 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 release to the environment.

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

- |                         |  |
|-------------------------|--|
| For containment         | : Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.   |
| Methods for cleaning up | : Stop dust cloud by humidifying with water. Scoop solid spill into closing containers. Wash down leftovers with plenty of water. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. |
| Other information       | : Dispose of materials or solid residues at an authorized site.  |

### 6.4. Reference to other sections

- For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- |                               |  |
|-------------------------------|--|
| Precautions for safe handling | : Avoid raising dust. Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Keep container tightly closed. |
| 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.   |
| Heat-ignition                | : KEEP SUBSTANCE AWAY FROM: heat sources.  |
| Information on mixed storage | : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. water/moisture.  |
| Storage area                 | : Store in a cool area. Store in a dry area. Keep container in a well-ventilated place. Keep only in the original container. Meet the legal requirements. Keep out of direct sunlight. |
| Special rules on packaging   | : SPECIAL REQUIREMENTS: closing. watertight. dry. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.                                      |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### potassium chloride (7447-40-7)

No additional information available

### 8.2. Appropriate engineering controls

- |                                  |  |
|----------------------------------|--|
| Appropriate engineering controls | : Ensure good ventilation of the work station. |
| Environmental exposure controls  | : Avoid release to the environment.            |

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

#### Materials for protective clothing:

GIVE GOOD RESISTANCE: butyl rubber. nitrile rubber

#### Hand protection:

Gloves

#### Eye protection:

Safety glasses. In case of dust production: protective goggles

#### Skin and body protection:

Protective clothing

#### Respiratory protection:

Dust production: dust mask with filter type P1

## SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: Crystalline solid. Powder.
Color	: White
Odor	: Odourless
Odor threshold	: No data available
pH	: 7
Melting point	: 770 °C
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: < 0.1 hPa (20 °C)
Relative vapor density at 20 °C	: Not applicable
Relative density	: 1.98 (20 °C)
Specific gravity / density	: 1987 kg/m³
Molecular mass	: 74.55 g/mol
Solubility	: Soluble in water. Insoluble in oils/fats. Water: 35.5 g/100ml (25 °C) Ethanol: 0.4 g/100ml
Log Pow	: -0.46 (Estimated value)
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

Saturation concentration	: 0 g/m³
VOC content	: Not applicable (inorganic)
Other properties	: Neutral reaction.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

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### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Hazardous decomposition products.

## 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

#### potassium chloride (7447-40-7)

LD50 oral rat	3020 mg/kg body weight (Rat, Female, Experimental value, Oral)
ATE US (oral)	3020 mg/kg body weight

Skin corrosion/irritation : Not classified

pH: 7

Serious eye damage/irritation : Not classified

pH: 7

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Potential Adverse human health effects and symptoms : Slightly irritant to respiratory organs. Not irritant to eyes.

Symptoms/effects after inhalation : AFTER INHALATION OF DUST/MIST: Slight irritation.

Symptoms/effects after skin contact : Slight irritation.

Symptoms/effects after eye contact : Not irritating.

Symptoms/effects after ingestion : AFTER INGESTION OF HIGH QUANTITIES: Feeling of weakness. Gastrointestinal complaints. Nausea. Vomiting. Diarrhoea. Change in the haemogramme/blood composition. Cardiac and blood circulation effects. Low arterial pressure. Dizziness. Disturbances of heart rate. Cramps/uncontrolled muscular contractions. Disturbances of consciousness.

Chronic symptoms : No effects known.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

Ecology - air : Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

Ecology - water : Slightly harmful to crustacea. Slightly harmful to fishes. Not harmful to activated sludge. Slightly harmful to algae.

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potassium chloride (7447-40-7)	
LC50 fish 1	2010 mg/l (96 h, Lepomis macrochirus, Static system)
EC50 Daphnia 1	660 mg/l (EPA 600/4-90/027, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)
LC50 fish 2	880 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
ErC50 (algae)	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)

### 12.2. Persistence and degradability

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

potassium chloride (7447-40-7)	
Log Pow	-0.46 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.

### 12.4. Mobility in soil

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

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods	: Waste treatment methods.
Product/Packaging disposal recommendations	: Treat using the best available techniques before discharge into drains or the aquatic environment. Remove waste in accordance with local and/or national regulations. Remove to an authorized dump. Precipitate/make insoluble. Immobilize the toxic or harmful components.
Additional information	: Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Other information : No supplementary information available.

### Transportation of Dangerous Goods

### Transport by sea

### Air transport

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

potassium chloride (7447-40-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### 15.2. International regulations

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### CANADA

potassium chloride (7447-40-7)
Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

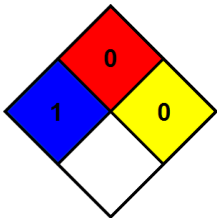
National regulations  
No additional information available

### 15.3. US State regulations

## SECTION 16: Other information

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Revision date	: 05/11/2017
NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.



SDS US (GHS HazCom 2012)

*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.*