

A Geno Technology, Inc. (USA) brand name

# **Safety Data Sheet**

Cat. # RC-082

Potassium Phosphate (Dibasic)

Size: 1kg





#### Safety Data Sheet

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

Date of issue: 12/07/2011 Revision date: 05/11/2017 Version: 7.1

#### **SECTION 1: Identification**

#### 1.1. Identification

Product form : Substance

Substance name : Potassium Phosphate (Dibasic)
Chemical name : Potassium Phosphate (Dibasic)

 CAS-No.
 : 7758-11-4

 Product code
 : 316P

 Formula
 : K2HPO4

Synonyms : dibasic potassium phosphate, anhydrous / dikalium phosphate, anhydrous / dipotassium

hydrogen phosphate, anhydrous / dipotassium hydrogenorthophosphate, anhydrous / dipotassium monophosphate, anhydrous / dipotassium monophosphate, anhydrous / dipotassium orthophosphate, anhydrous / dipotassium phosphate, anhydrous / dipotassium-ophosphate, anhydrous / DKP, anhydrous / hydrogen dipotassium phosphate, anhydrous / orthophosphate dipotassium, anhydrous / phosphoric acid, dipotassium salt, anhydrous / potassium biphosphate, anhydrous / potassium dibasic phosphate, anhydrous / potassium hydrogen phosphate(=di potassium hydrogen phosphate, anhydrous / potassium monohydrogen orthophosphate, anhydrous / potassium monohydrogen phosphate, anhydrous / potassium orthophosphate, anhydrous / potassium phosphate, anhydrous / potassium orthophosphate, mono-H, anhydrous / potassium phosphate dibasic, anhydrous / sec-potassium phosphate,

anhydrous / secundary potassium phosphate, anhydrous

BIG No : 17763

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

Use of the substance/mixture : Anti-corrosion agent

Paper production: auxiliary substance

Fertiliser Sealant

Laboratory chemical Food industry: additive Chemical raw material

Pharmaceutical product: component

#### 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 - 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

06/28/2019 EN (English US) Page 1

### Safety Data Sheet

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

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
Potassium Phosphate (Dibasic)	dibasic potassium phosphate, anhydrous / dikalium phosphate, anhydrous / dipotassium hydrogen phosphate, anhydrous / dipotassium hydrogenorthophosphate, anhydrous / dipotassium monohydrogen phosphate, anhydrous / dipotassium monophosphate, anhydrous / dipotassium phosphate, anhydrous / dipotassium phosphate, anhydrous / dipotassium-ophosphate, anhydrous / dipotassium-ophosphate, anhydrous / DKP, anhydrous / hydrogen dipotassium phosphate, anhydrous / DKP, anhydrous / phosphoric acid, dipotassium salt / phosphoric acid, dipotassium salt / phosphoric acid, dipotassium biphosphate, anhydrous / potassium biphosphate, anhydrous / potassium dibasic phosphate, anhydrous / potassium dibasic phosphate, anhydrous / potassium hydrogen phosphate (=di potassium hydrogen phosphate) / potassium monohydrogen orthophosphate, anhydrous / potassium orthophosphate, anhydrous / potassium orthophosphate, anhydrous / potassium phosphate, anhydrous / potassium phosphate, anhydrous / secundary potassium phosphate, anhydrous	(CAS-No.) 7758-11-4		Not classified

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

#### **Mixtures**

Not applicable

#### **SECTION 4: First-aid measures**

#### **Description of first aid measures**

First-aid measures general

First-aid measures after inhalation

First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion

: If you feel unwell, seek medical advice.

: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

Rinse with water. Take victim to an ophthalmologist if irritation persists. Remove contact

lenses, if present and easy to do. Continue rinsing.

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell.

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

Potential Adverse human health effects and symptoms

: Non-toxic if swallowed (LD50 oral, rat > 5000 mg/kg). Slightly irritant to skin. Slightly irritant to respiratory organs. Slightly irritant to eyes. : AFTER INHALATION OF DUST/MIST: Coughing. Irritation of the nasal mucous membranes.

Symptoms/effects after inhalation

: Slight irritation.

Symptoms/effects after skin contact Symptoms/effects after eye contact

: Slight irritation.

Symptoms/effects after ingestion

: AFTER INGESTION OF HIGH QUANTITIES: Feeling of weakness. Nausea. Vomiting. Diarrhoea. Disturbances of heart rate. Low arterial pressure.

Chronic symptoms

Slight irritation. ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Tingling/irritation of the skin.

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

Treat symptomatically.

#### **SECTION 5: Fire-fighting measures**

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

06/28/2019 EN (English US) 2/7

#### Safety Data Sheet

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

#### 5.2. Specific hazards arising from the chemical

Fire hazard : DIRECT FIRE HAZARD: Non combustible.

Explosion hazard : DIRECT EXPLOSION HAZARD: No direct explosion hazard.

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

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 covering with sand/earth. Scoop solid spill into closing containers. 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. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly

clean/dry the installation before use.

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.

Storage temperature : 20 °C

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: (strong) acids.

Storage area : Store in a dry area. Keep container in a well-ventilated place. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: hermetical, watertight, dry, clean, correctly labelled, meet the

legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: cardboard. synthetic material.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Potassium Phosphate (Dibasic) (7758-11-4)

No additional information available

06/28/2019 EN (English US) 3/7

### Safety Data Sheet

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

#### 8.2. Appropriate engineering controls

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

Environmental exposure controls : Avoid release to the environment.

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

#### Materials for protective clothing:

GIVE GOOD RESISTANCE: 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. Grains.

Color : Colourless or white

Odor : Odourless

Odor threshold : No data available

pH : 8.8 (1 %) Melting point :  $340 \, ^{\circ}\mathrm{C}$ 

Freezing point : Not applicable
Boiling point : Not applicable
Flash point : Not applicable
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Non flammable.
Vapor pressure : No data available

Relative density : 2.3

Specific gravity / density : 2340 kg/m³

Molecular mass : 174.18 g/mol

Solubility : Soluble in water.

Water: 167 g/100ml : No data available

: Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : 340 °C

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

Relative vapor density at 20 °C

Log Pow

VOC content : 0 %

Other properties : Hygroscopic. Basic reaction.

06/28/2019 EN (English US) 4/7

### Safety Data Sheet

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

#### SECTION 10: Stability and reactivity

#### Reactivity

Reacts violently with (some) acids.

#### 10.2. **Chemical stability**

Hygroscopic.

#### 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).

#### 10.5. Incompatible materials

No additional information available

#### **Hazardous decomposition products**

Hazardous decomposition products.

#### **SECTION 11: Toxicological information**

#### Information on toxicological effects

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

Potassium Phosphate (Dibasic) (775	58-11-4)	
LD50 oral rat	8000 mg/kg (Rat, Oral)	
ATE US (oral)	8000 mg/kg body weight	
Skin corrosion/irritation	: Not classified	
	pH: 8.8 (1 %)	
Serious eye damage/irritation	: Not classified	

Serious eye damage/irritation pH: 8.8 (1 %) 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 : Not classified

Specific target organ toxicity - repeated exposure

Aspiration hazard : Not classified : No data available

Viscosity, kinematic

: Non-toxic if swallowed (LD50 oral, rat > 5000 mg/kg). Slightly irritant to skin. Slightly irritant to Potential Adverse human health effects and respiratory organs. Slightly irritant to eyes. symptoms Symptoms/effects after inhalation : AFTER INHALATION OF DUST/MIST: Coughing. Irritation of the nasal mucous membranes.

Slight irritation. Symptoms/effects after skin contact : Slight irritation. Symptoms/effects after eye contact

Symptoms/effects after ingestion AFTER INGESTION OF HIGH QUANTITIES: Feeling of weakness. Nausea. Vomiting.

Diarrhoea. Disturbances of heart rate. Low arterial pressure.

Chronic symptoms : Slight irritation. ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Tingling/irritation of the skin.

#### **SECTION 12: Ecological information**

12.1. I OXICITY	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

06/28/2019 EN (English US) 5/7

#### Safety Data Sheet

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

: Slightly harmful to fishes. Mild water pollutant (surface water). May cause eutrophication. Ecology - water

Potassium Phosphate (Dibasic) (7758-11-4)	
LC50 fish 1	> 900 mg/l (48 h, Leuciscus idus, Static system)

#### 12.2. Persistence and degradability

Potassium Phosphate (Dibasic) (7758-11-4)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	

#### 12.3. **Bioaccumulative potential**

Potassium Phosphate (Dibasic) (7758-11-4)	
Bioaccumulative potential	No bioaccumulation data available.

#### 12.4. **Mobility in soil**

No additional information available

#### Other adverse effects

No additional information available

#### **SECTION 13: Disposal considerations**

#### **Disposal methods**

Waste treatment methods : Waste treatment methods.

Product/Packaging disposal recommendations Use appropriate containment to avoid environmental contamination. Remove waste in

accordance with local and/or national regulations. Remove to an authorized dump.

: Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended Additional information

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

Not regulated

#### Air transport

Not regulated

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### Potassium Phosphate (Dibasic) (7758-11-4)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Potassium Phosphate (Dibasic) (7758-11-4)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

06/28/2019 EN (English US) 6/7

### Safety Data Sheet

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

**CANADA** 

#### **EU-Regulations**

#### **National regulations**

No additional information available

15.3. US State regulations

#### **SECTION 16: Other information**

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

Revision date : 05/11/2017

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause

significant irritation.

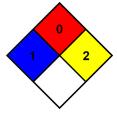
NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions,

including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity : 2 - Materials that readily undergo violent chemical change

at elevated temperatures and pressures.



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.

06/28/2019 EN (English US) 7/7