

A Geno Technology, Inc. (USA) brand name

Safety Data Sheet

Cat. # RC-081

Potassium Phosphate (Dibasic)

Size: 500g





Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 5/11/2017 Version: 1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

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

EC-No. : 231-834-5
CAS-No. : 7758-11-4
Product code : 316P

Type of product : Pure substance, Hygroscopic substance. Preventive measures apply to the substance in

dry state only

Formula : K2HPO4

Synonyms : 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 phosphate, anhydrous / DKP, anhydrous / hydrogen dipotassium phosphate, anhydrous / orthophosphate dipotassium, anhydrous / phosphoric acid, dipotassium salt / phosphoric acid, dipotassium salt, anhydrous / potassium biphosphate, anhydrous / potassium dibasic phosphate, anhydrous / potassium hydrogen phosphate(=dipotassium hydrogen phosphate) / potassium hydrogenphosphate, anhydrous / potassium monohydrogen orthophosphate, anhydrous / potassium monohydrogen phosphate, anhydrous / potassium orthophosphate, mono-H, anhydrous / potassium phosphate dibasic, anhydrous / sec-potassium phosphate, anhydrous / sec-potassium phosphate, anhydrous / sec-potassium

phosphate, anhydrous

Product group : Raw material BIG No : 17763

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Research purposes
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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Geno Technology, Inc./ G-Biosciences

9800 Page Avenue

63132-1429 Saint Louis - 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: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
' '	(CAS-No.) 7758-11-4 (EC-No.) 231-834-5	100	Not classified

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.

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. Take victim to an ophthalmologist if irritation persists. Remove contact

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

First-aid measures after ingestion : 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.

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

Symptoms/effects after inhalation : AFTER INHALATION OF DUST/MIST: Coughing. Irritation of the nasal mucous

membranes.

Symptoms/effects after skin contact : Slight irritation.
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.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam

5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD: Non combustible.

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

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

5.3. Advice for firefighters

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".

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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain release

: 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 and ignition sources : 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.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

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

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid. Powder. Grains.

Molecular mass : 174.18 g/mol
Colour : Colourless or white.

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Odour threshold	: No data available
Ododi tilleshold	. No data available
рН	: 8.8 (1 %)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 340 °C
Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: 340 °C

Flammability (solid, gas) : Non flammable. : No data available Vapour pressure

Relative vapour density at 20 °C : Not applicable Relative density : 2.3

Density : 2340 kg/m³ Solubility : Soluble in water.

Water: 167 g/100ml : No data available

: Odourless.

Log Pow : No data available Viscosity, kinematic Viscosity, dynamic : No data available Explosive properties : No data available : No data available Oxidising properties Explosive limits : Not applicable

9.2. Other information

VOC content

Other properties : Hygroscopic. Basic reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with (some) acids.

10.2. Chemical stability

Hygroscopic.

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. Illiottilation on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Potassium Phosphate (Dibasic) (7758-11-4) LD50 oral rat 8000 mg/kg (Rat, Oral) Skin corrosion/irritation : Not classified pH: 8.8 (1 %) Serious eye damage/irritation : Not classified pH: 8.8 (1 %) Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure Not classified STOT-repeated exposure : Not classified

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Aspiration hazard

: Not classified

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.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term

adverse effects in the environment.

Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

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

Acute aquatic toxicity Not classified Chronic aquatic toxicity : Not classified

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

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment 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 Additional information

amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

European List of Waste (LoW) code : 15 01 01 - paper and cardboard packaging

15 01 02 - plastic packaging

06 03 14 - solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13 16 05 09 - discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

: Not regulated UN-No. (ADR) UN-No. (IMDG) : Not regulated UN-No. (IATA) : Not regulated UN-No. (ADN) : Not regulated UN-No. (RID) : Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated : Not regulated Proper Shipping Name (IMDG) Proper Shipping Name (IATA) : Not regulated Proper Shipping Name (ADN) : Not regulated Proper Shipping Name (RID) : Not regulated

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14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

ADN

Transport hazard class(es) (ADN) : Not regulated

RID

Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

Packing group (ADR) : Not regulated
Packing group (IMDG) : Not regulated
Packing group (IATA) : Not regulated
Packing group (ADN) : Not regulated
Packing group (RID) : Not regulated

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Potassium Phosphate (Dibasic) is not on the REACH Candidate List

Potassium Phosphate (Dibasic) is not on the REACH Annex XIV List

Potassium Phosphate (Dibasic) is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Potassium Phosphate (Dibasic) is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

VOC content : 0 %

15.1.2. National regulations

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Safety Data Sheet applicable for regions : GB - United Kingdom

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SDS EU (REACH Annex II)

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.