

SAFETY DATA SHEET
Potassium Phosphate Dibasic Anhydrous, ACS Grade



SDS #: 0083
Revision date: 2023-06-12
Format: NA
Version 1

Page 1 / 7

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Potassium phosphate dibasic anhydrous, ACS grade

Other means of identification

CAS-No 7758-11-4

Recommended use of the chemical and restrictions on use

Recommended Use: Laboratory chemicals, Manufacture of substances.

Restrictions on Use: No restrictions.

Manufacturer/Supplier

Carbon Científica LTDA
773, Alameda Bom Pastor
Ouro Fino, São José dos Pinhais / PR
Zip Code: 83020-625
Phone: +55 41 3384-0315
E-mail: contato@caboncientifica.com.br

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Formula: K_2HPO_4

Chemical name	CAS-No	Weight %
Potassium phosphate dibasic anhydrous	7758-11-4	100

Synonyms

Dipotassium hydrogenphosphate
Dipotassium phosphate
sec.-Potassium phosphate

4. FIRST AID MEASURES**Inhalation**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Skin Contact

Wash off with soap and plenty of water.

Eye Contact

Flush eyes with water as a precaution.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

Indication of immediate medical attention and special treatment needed, if necessary

No further relevant information available.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Oxides of phosphorus

Potassium oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE**Precautions for safe handling****Advice on protection against fire and explosion**

Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures

General industrial hygiene practice. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities**Storage conditions**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic.

Storage class

Storage class (TRGS 510): 13: Non Combustible Solids.

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters**

Ingredients with workplace control parameters

Exposure controls**Personal protective equipment****Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, dust masks. Use respirators tested and approved under appropriate government standards. Control of environmental exposure. Do not let

Potassium phosphate dibasic anhydrous, ACS grade

product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Crystalline powder
Color	White
Odor	Odorless
pH	8.7 - 9.3 at 50 g/L at 25°C
Melting point/freezing point	340°C
Boiling point/range	No data available
Flash point	Not Flammable
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	No data available
Vapor density	No data available
Relative density	2.3 g/cm ³ at 20°C
Solubility (ies)	Completely soluble in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	Not combustible
Decomposition temperature	No data available
Oxidizing properties	No data available
Molecular weight	174.18
Bulk density	1.300 kg/m ³ at 20°C

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under recommended storage conditions.

Reactivity

No data available.

Possibility of Hazardous Reactions

No data available.

Conditions to Avoid

Strong heating and exposure to moisture.

Incompatible Materials

Strong oxidizing agents

Hazardous Decomposition Products

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Eyes	No data available
Respiratory	LC50 Inhalation - Rat - male and female - 4 h - > 0,83 mg/L - dust/mist
Skin	LD50 Dermal – rat – 2000 mg/kg
Ingestion	LD50 Oral – mouse – 2000 mg/kg

Carcinogenicity	No data available
Aspiration hazard	No data available
Serious eye damage/eye irritation	No eye irritation - 24 h
Respiratory or skin sensitization	Negative
Germ cell mutagenicity	Negative
Skin corrosion/irritation	No skin irritation - 24 h
Specific Target Organ Toxicity	No data available
Reproductive Toxicity	No data available
Respiratory/Skin Sensitization	Negative

Additional Information

Lowered blood pressure, abdominal pain, Nausea, Vomiting To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After uptake of large quantities:

Possible symptoms:

Nausea Vomiting gastric pain Diarrhea Discomfort However, when the product is handled appropriately, hazardous effects are unlikely to occur.

Handle in accordance with good industrial hygiene and safety practice.

12. ECOLOGICAL INFORMATION

Toxicity

To fish	semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/L - 96 h
To daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - > 100 mg/L - 48 h
To algae	static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/L - 72 h
To bacteria	static test EC50 - activated sludge - > 1,000 mg/L - 3 h static test NOEC - activated sludge - 1,000 mg/L - 3 h

Persistence and Degradability	The methods for determining biodegradability are not applicable to inorganic substances.
PBT and vPvB Assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Bioaccumulative Potential	No data available

SDS #: 0083

Revision date: 2023-06-12

Version 1

Mobility in Soil	No data available
Endocrine disrupting properties	No data available
Other Adverse Effects	Depending on the concentration, phosphorus compounds may contribute to the eutrophication of water supplies. Discharge into the environment must be avoided.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

DOT	Not dangerous goods
TDG	Not dangerous goods
IMDG	Not dangerous goods
Marine Pollutant	Not dangerous goods
IATA/ICAO	Not dangerous goods

OTHER INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Brazilian Standart

ABNT NBR 14725-4:2014

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

The information provided in this Safety Data Sheet ("SDS") is correct to the best of our knowledge, information, and belief at the date of publication. The information in this SDS relates only to the specific Product identified under Section 1, and does not relate to its use in combination with other

SDS #: 0083

Revision date: 2023-06-12

Version 1

materials or products, or its use as to any particular process. Those handling, storing, or using the Product should satisfy themselves that they have current information regarding the particular way the Product is handled, stored or used and that the same is done in accordance with federal, state and local law. The Carbon Científica NOT MAKE ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE. The Carbon Científica DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, INJURY, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT.
