

SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2020

<u>Date Updated:</u> November 27, 2020

SECTION 1. - - - - - PRODUCT AND COMPANY IDENTIFICATION - - - - - - -

Product Name Sodium phosphate dibasic

Product Code(s) S0404

Recommended Use For Laboratory Research Use Only

Not for Human or Animal Drug Use

Supplier Bio Basic Inc.

Address 20 Konrad Crescent, Markham, Ontario,

Canada, L3R 8T4

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 (905) 474 4493

 Fax
 (905) 474 5794

 For Chemical Emergency Phone#
 (416) 995 9730

SECTION 2. ----- HAZARDS IDENTIFICATION -----

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS

- none

SECTION 3. - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

Chemical Name	EC No.	CAS-No	Weight %
Sodium phosphate dibasic	231-448-7	7558-79-4	<100

SECTION 4. ----- FIRST-AID MEASURES-----

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

SECTION 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, Sodium oxides

Not combustible.

Ambient fire may liberate hazardous vapours.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Reference to other sections

For disposal see section 13.

SECTION 7. ----- HANDLING AND STORAGE-----

Precautions for safe handling

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Tightly closed. Dry.

Hygroscopic. Keep in a dry place.

Storage class (TRGS 510): 11: Combustible Solids

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

SECTION 8. - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - -

Exposure controls

Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are

desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

Information on basic physical and chemical properties

a) **Appearance** Form: granules

Color: white

b) Odor odorless

Odor Threshold c) Not applicable

8.9 - 9.2 at 50 g/l at 25 °C (77 °F) d) pН

Melting point/range: > 450 °C (> 842 °F) - Regulation (EC) No. e) Melting

point/freezing point 440/2008, Annex, A.1

Initial boiling point f) and boiling range

No data available

Flash point ()Not applicable No data available h) Evaporation rate i) Flammability (solid,

No data available

gas)

Upper/lower No data available j) flammability or

explosive limits

Vapor pressure No data available k)

I) Vapor density No data available m) Relative density No data available

Water solubility completely soluble n)

Partition coefficient: Not applicable for inorganic substances n-

octanol/water

Autoignition No data available p)

temperature

No data available Decomposition

temperature

r) Viscosity No data available Explosive properties No data available s)

Oxidizing properties No data available

Other safety information

Dissociation constant 6.87 at 20.4 °C (68.7 °F) - OECD Test Guideline 112

SECTION 10. ------STABILITY AND REACTIVITY -----

10.1 Reactivity

No data available

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Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) . Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

Exposure to moisture. no information available

Incompatible materials

Strong oxidizing agents, Strong acids

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Oxides of phosphorus, Sodium oxides Other decomposition products - No data available In the event of fire: see section 5

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

Acute toxicity

LD50 Oral - Rat - female - > 2,000 mg/kg (OECD

Test Guideline 420)

LC50 Inhalation - Rat - male and female - 4 h - > 0.83 mg/l (OECD Test

Guideline 403)

LD50 Dermal - Rat - male and female - > 2,000 mg/kg (OECD

Test Guideline 402) No data available

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 24 h (OECD

Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation - 30 s (OECD

Test Guideline 405)

Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse Result:

negative

(OECD Test Guideline 429)

Germ cell mutagenicity

Micronucleus test Human

lymphocytes Result:

negative

In vitro mammalian cell gene mutation test mouse

lymphoma cells

Result: negative

(ECHA)

Chromosome aberration test in vitro Human

lymphocytes Result: negative

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: WC4500000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

However, when the product is handled appropriately, hazardous effects are unlikely to occur. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. ----- ECOLOGICAL INFORMATION -----**Toxicity**

Toxicity to fish semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100

mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h

(OECD Test Guideline 202)

and other aquatic

invertebrates

Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - > 100

mg/l - 72 h

(OECD Test Guideline 201)

Toxicity to bacteria static test EC50 - activated sludge - > 1,000 mg/l - 3 h

(OECD Test Guideline 209)

Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

Discharge into the environment must be avoided.

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14. ----- TRANSPORT INFORMATION -----

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IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15. ----- REGULATORY INFORMATION -----

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

SECTION 16. ----- OTHER INFORMATION-----

Further information: no limited for paper copy, just for internal uses. For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Issuing Date: 27-Nov-2020

End of SDS



Bio Basic Inc.

CERTIFICATE OF ANALYSIS

Product Sodium phosphate, dibasic, anhydrous

Grade ACS

Product Code S0404(SC8120)

Lot No

Test Items	Specifications	Results
Appearance	White powder	
Purity	≥99%	
Insoluble matter	<0.01%	
Loss on dry at 105°C	<0.2%	
pH (5% in water, at 25°C)	8.7~9.3	
Chloride (CI)	<0.002%	
Sulfate (SO ₄)	<0.005%	
Heavy metals (as Pb)	<0.001%	
Iron (Fe)	<0.002%	
Nitrogen Compounds (as N)	<0.002%	

Storage: R.T.