



Sodium phosphate dibasic

Safety Data Sheet

Version 1.1

Revision date 01/09/2012/JK-IA

SECTION 1. Product and company identification

Chemical type	: Substance
Substance name	: Sodium phosphate dibasic
CAS No.	: 7558-79-4
Product code	: RC-095
Formula	: Na ₂ HPO ₄
Synonyms	: ACETEST / anhydrous sodium acid phosphate / dibasic sodium phosphate / disodium acid phosphate / disodium acid phosphate, anhydrous / disodium hydrogen phosphate / disodium hydrophosphate, anhydrous / disodium monohydrogen phosphate / disodium monohydrogen phosphate, anhydrous / disodium orthophosphate / disodium orthophosphate, anhydrous / disodium phosphate / disodium phosphate, anhydrous / disodium phosphoric acid / disodium phosphoric acid, anhydrous / DSP (=disodium phosphate) / DSP(=disodium phosphate), anhydrous / E339(b) food grade / exciccated sodium phosphate / fema number 2398 / phosphate of soda / phosphoric acid disodium salt, anhydrous / phosphoric acid, disodium salt / secondary-sodium phosphate / secondary-sodium phosphate, anhydrous / secondary-sodiumorthophosphate, anhydrous / sec-sodium phosphate / soda phosphate(=disodium hydrogen orthophosphate) / sodium hydrogen phosphate(=disodium hydrogen orthophosphate) / sodium monohydrogen orthophosphate, anhydrous / sodium monohydrogen phosphate / sodium orthophosphate, mono-H / sodium orthophosphate, secondary- / sodium phosphate, dibasic / sodium phosphate, dibasic, anhydrous / sodium phosphate, exciccated, anhydrous
Company identification	: G-Biosciences/ Geno Technology, Inc. 9800 Page Avenue St. Louis, MO 63312-1429, USA Tel.1-800-628-7730 http://www.GBiosciences.com
Emergency number	: Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

SECTION: 2. Hazards identification

2.1. Emergency Overview

Physical state	: Solid
Appearance	: Crystalline solid. Powder. Grains
Colour	: Colourless to white
Odour	: Odourless

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2.2. OSHA Regulatory Status

No additional information available

2.3. Potential health effects

Symptoms/injuries after inhalation	: EXPOSURE TO HIGH CONCENTRATIONS: Coughing.
Symptoms/injuries after skin contact	: Slight irritation.
Symptoms/injuries after eye contact	: Slight irritation.
Symptoms/injuries after ingestion	: AFTER ABSORPTION OF HIGH QUANTITIES: Irritation of the gastric/intestinal mucosa. Vomiting. Nausea. Abdominal pain. Diarrhoea. Change in the haemogramme/blood composition. Slowing heart action. Low arterial pressure.

2.4. Potential environmental effects

No additional information available

SECTION: 3. Composition/information on ingredients

Name	CAS No.	%
Sodium phosphate dibasic	7558-79-4	100

4.1. First aid procedures

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. 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. Do not induce vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell.

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4.2. Note to physicians

No additional information available

SECTION: 5. Firefighting measures

5.1. Flammable properties

Fire hazard	: DIRECT FIRE HAZARD. Non combustible.
Explosion hazard	: DIRECT EXPLOSION HAZARD. Not applicable. INDIRECT EXPLOSION HAZARD. Not applicable.
Reactivity	: On burning: release of toxic and corrosive gases/vapours (phosphorus oxides). Reacts violently with (some) acids.

5.1. Extinguishing media

Suitable extinguishing media	: EXTINGUISHING MEDIA FOR SURROUNDING FIRES : Adapt extinguishing media to the environment.
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5.3. Protection for firefighters

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

6.1.1. For non-emergency personnel

Protective equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. See "Material-Handling" to select protective clothing.
Emergency procedures	: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods for containment

For containment	: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.
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6.4. Methods for clean up

Methods for cleaning up	: Stop dust cloud by humidifying. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
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6.5. Other information

No additional information available

6.6. Spill or leak statements by type of chemical

No additional information available

SECTION: 7. Handling and storage

7.1. Handling

Precautions for safe handling	: Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
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7.2. Storage

Heat-ignition	: KEEP SUBSTANCE AWAY FROM: heat sources.
Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM: (strong) acids. water/moisture.
Storage area	: Store in a dry area. Keep container in a well-ventilated place. Store at ambient temperature. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: paper. textile. synthetic material. MATERIAL TO AVOID: aluminium. iron.

SECTION: 8. Exposure controls/personal protection

8.1. Exposure guidelines

No additional information available

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8.2. Engineering controls

No additional information available

8.3. Personal protective equipment (PPE)

Materials for protective clothing	: GIVE GOOD RESISTANCE: neoprene. PVC.
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

Physical state	: Solid
Appearance	: Crystalline solid. Powder. Grains.
Molecular mass	: 141.98 g/mol
Colour	: Colourless to white.
Odour	: Odourless.
Odour threshold	: No data available
pH	: 9
pH solution	: 1 %
Melting point	: 240 °C
Solidification point	: No data available
Boiling point	: Not applicable
Flash point	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Vapour pressure	: < 0.1 hPa (20 °C)
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water. Water: 12 g/100ml
Log Pow	: No data available
Self ignition temperature	: Not applicable
Decomposition temperature	: 240 °C
Viscosity	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Minimum ignition energy	: Not applicable
SADT	: Not applicable
VOC content	: Not applicable
Other properties	: Hygroscopic. Substance has basic reaction.

SECTION: 10. Stability and reactivity

10.1. Chemical stability

On burning: release of toxic and corrosive gases/vapours (phosphorus oxides). Reacts violently with (some) acids.

Hygroscopic.

10.2. Conditions to avoid

No additional information available

10.3. Incompatible materials

No additional information available

10.4. Hazardous decomposition products

No additional information available

10.5. Possibility of hazardous reactions

No additional information available

SECTION: 11. Toxicological information

Information on toxicological effects

Acute toxicity	: Not classified
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LD50 oral rat	17000 mg/kg
LD50 dermal rat	> 7940 mg/kg
Skin corrosion/irritation	: Not classified pH: 9
Serious eye damage/irritation	: Not classified pH: 9
Respiratory or skin sensitisation	: 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

SECTION: 12. Ecological information

12.1 Ecotoxicity

Ecology - air : Not dangerous for the ozone layer (Council Regulation (EC) no 1005/2009). Germany: TA-Luft Klasse 5.2.1.

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LC50 fishes 1	> 2400 mg/l (48 Hours; LEUCISCUS IDUS; OECD 203)
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12.2. 12.2. Persistence and degradability

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Persistence and degradability	Biodegradability: not applicable.
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Biochemical oxygen demand (BOD)	Not applicable
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Chemical oxygen demand (COD)	Not applicable
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ThOD	Not applicable
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BOD (% of ThOD)	Not applicable
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12.3. Bioaccumulation/Accumulation

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Bioaccumulative potential	According to literature, not bioaccumulative.
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12.4. Mobility in environmental media

No additional information available

12.6. Other adverse effects

No additional information available

SECTION: 13. Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Remove waste in accordance with local and/or national regulations. Precipitate/make insoluble. Remove to an authorized dump (Class I). Do not discharge into surface water.

SECTION: 14. Transport information

14.1. Basic shipping description

No additional information available

14.2 Additional information

Other information : No supplementary information available.

State during transport (ADR-RID) : Rail and road transport: not subject to ADR-RID.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

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SECTION: 15. Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

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

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION: 16. Other information

NFPA health hazard

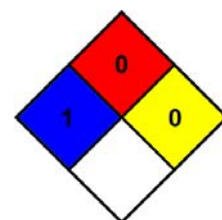
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 0 - Materials that will not burn.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

No additional information available

SDS US (ANSI) GBiosciences