



# 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-096
Formula	: Na <sub>2</sub> HPO <sub>4</sub>
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 / exsiccated 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-sodium orthophosphate, 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, exsiccated, anhydrous
Company identification	: G-Biosciences/ Geno Technology, Inc. 9800 Page Avenue St. Louis, MO 63312-1429, USA Tel.1-800-628-7730 <a href="http://www.GBiosciences.com">http://www.GBiosciences.com</a>
Emergency number	: Chemtrec <b>1-800-424-9300</b> (USA/Canada), <b>+1-703-527-3887</b> (Intl)

### SECTION: 2. Hazards identification

#### 2.1. Emergency Overview

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

#### Sodium phosphate dibasic(7558-79-4)

#### 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 ( <a href="http://www.big.be/antigif.htm">www.big.be/antigif.htm</a> ). Consult a doctor/medical service if you feel unwell.

# Sodium phosphate dibasic

## Safety Data Sheet

### 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.
------------------------------	---

### 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.
-----------------	--

### 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.
-------------------------	---

### 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.
-------------------------------	--

### 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

# Sodium phosphate dibasic

## Safety Data Sheet

### 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
----------------	------------------

# Sodium phosphate dibasic

## Safety Data Sheet

Sodium phosphate dibasic (7558-79-4)	
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.

#### Sodium phosphate dibasic(7558-79-4)

LC50 fishes 1	> 2400 mg/l (48 Hours; LEUCISCUS IDUS; OECD 203)
---------------	--

### 12.2. 12.2. Persistence and degradability

#### Sodium phosphate dibasic(7558-79-4)

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. Bioaccumulation/Accumulation

#### Sodium phosphate dibasic(7558-79-4)

Bioaccumulative potential	According to literature, not bioaccumulative.
---------------------------	---

### 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

# Sodium phosphate dibasic

## Safety Data Sheet

### 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

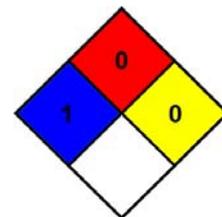
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

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