



# Material safety data sheet VIVASTAR®

Type A (Ph. Eur.)

Version: 4

Issued/Modified: 14.01.2004

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## 1. Material/production and company name

Commercial product name:

**VIVASTAR® P, PSF**

**Sodium Starch Glycolate Type A (Ph. Eur.)**

Other names:

Sodium Starch Glycolate (Ph. Eur., NF)  
Carboxymethylamidon Sodique (Ph. Fr.)  
Sodium Carboxymethylstarch (JPE)  
Carboxymethylamylum natricum (Ph. Eur.)

Indications about the producer/supplier:

**JRS PHARMA GMBH + CO.KG**

**A Member of the JRS Group**

**Holzmühle 1**

**D-73494 Rosenberg**

**Tel.: +49(0) 79 67 / 152-0 Fax: 152-222**

Manufacturing site:

**CHP Carbohydrate Pirna GmbH & Co. KG**

**A Member of the JRS Group**

**Lohmener Straße 12**

**D-01796 Pirna**

**Tel.: +49(0) 35 01 / 52 88 52 Fax: 52 87 43**

## 2. Composition/information on ingredients

Chemical characterization:

VIVASTAR® P products are cross-linked, low substituted carboxymethylether of potato starch.

CAS-no.:

9063-38-1

EINECS-no.:

not available

## 3. Hazards identification

Hazard class:

Not regulated.

Health hazard:

May be harmful if ingested in great quantity. May be irritating to eyes and if inhaled as dust.

## 4. First aid measures

General information:

Non-hazardous.

After contact with eyes:

Irrigate thoroughly with water. If discomfort persists obtain medical attention.

After contact with skin:

Wash off thoroughly with soap and water.

After ingestion:

No hazard anticipated from ingestion incidental to industrial exposure. Wash out mouth thoroughly with water. In severe cases obtain medical attention.

After inhalation:

Non-hazardous; nuisance dust. Remove from exposure. If irritation persists obtain medical attention.

## 5. Fire-fighting measures

Special protective equipment for firefighting:

Normal precautions against smoke inhalation

### Further information

Hazardous decomposition:

CO<sub>2</sub>, H<sub>2</sub>O, ash and typical combustion by-products.

Fire and explosion hazards:

Dust explosion hazard. Avoid conditions of ignition at higher dust concentrations.

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## 6. Accidental release measures

Personal precautions:	Dust mask, gloves, overalls and goggles recommended.
Environmental precautions:	Non-hazardous. Spills of this material are not subject to any special reporting requirements under current environmental legislation in either the U.S.A. or European Union.
Methods for cleaning up/ taking up:	Pick up dry and rinse away any remaining powder with water.

## 7. Handling and storage

### Handling

Advice on safe handling:	Avoid conditions of dust concentration. Dust mask, gloves, overalls and goggles recommended.
Advice on protection against fire and explosion:	Handling and cleaning procedures should minimize any dust creation.

### Storage

Keep containers closed. Protect from moisture and excessive heat.  
Shelf life stability: 4 years  
Storage class: Not available.

## 8. Exposure controls/personal protection

Occupational exposure limits:	Non-hazardous nuisance dust. OSHA Permissible Exposure Limit (PEL) for nuisance dusts: 15 mg/m <sup>3</sup> total dust and 5 mg/m <sup>3</sup> respirable fraction.
Engineering measures:	Use local ventilation. Dusting may occur.
Personal protective equipment:	Respiratory: Dust mask recommended. Hand: Gloves recommended. Eye: Goggles recommended. Other: Overalls recommended.
Hygiene measures:	Do not eat or drink during work time. Keep away from foodstuffs and beverages. Wash hands before and after work.

## 9. Physical and chemical properties

### Appearance

Form:	fine powder
Colour:	white to off-white
Odour:	odourless

### Data relevant to safety

pH:	in the range of 5.5 - 7.5
Melting point:	Does not melt, but chars at about 200 °C.
Ignition temperature:	not measured
Explosion limit for dust:	not measured
Bulk density:	0,7 – 0,9 g/ml
Solubility:	Insoluble in organic solvents, it swells in contact with water. A 2 % w/v aqueous suspension forms a sedimented gel.

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## 10. Stability and reactivity

Stability:	Stable under recommended conditions of storage (see 7.).
Conditions to avoid:	High temperature; high humidity.
Materials to avoid:	Oxidizing substances.
Recommended materials for process/handling equipment:	Normal materials used in the construction of processing equipment for the food/pharmaceutical industries.

## 11. Toxicological information

Short term:	None known.
Eyes:	No hazard anticipated incidental to industrial exposure. None known.
Skin:	No hazard anticipated incidental to industrial exposure. Mechanical irritant. May cause scratching to eye surfaces. None known.
Ingestion:	No hazard anticipated incidental to industrial exposure. None known.
Inhalation:	No hazard anticipated incidental to industrial exposure. None known.
Long term effects:	No hazard anticipated incidental to industrial exposure. None known.

## 12. Ecological information

Degradability:	Product is good biodegradable.
Aquatic toxicity:	None known.

## 13. Disposal considerations

Product:	May be disposed of in accordance with local regulations.
Uncleaned packaging:	May be disposed of in accordance with local and other regulations.

## 14. Transport information

Transport:	GGVSee/IMDG-Code: --      UN-Nr.: ---      ICAO/IATA-DGR: --- GGVE/GGVS: ---      RID/ADR: ---      ADNDR: ---
Other information:	Transportation of VIVASTAR® has to be sealed, dry and protected from water and heat. Mail transport permissible.
Transport hazard symbol:	None

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## 15. Regulatory information

Supply classification:	Not required.
Hazard pictogram:	Not required.
Risk phrases:	This material is generally regarded as safe when handled and used in an appropriate manner.
Safety phrases:	This material is generally regarded as safe when handled and used in an appropriate manner.
Other applicable regulations:	None known.

## 16. Other information

The above information is believed to be correct but is not purported to be all inclusive and shall be used as a guide. CHP shall not be held liable for any damage resulting from handling or from contact with the above product.