

# **Chromathography Gels**

# **Certification Data Sheet**

## PRODUCT OVERVIEW

SURFACE TREATED UNMODIFIED

ZEOprep® ZEOprep®

ZEObeads ZEOsphere®

These products are amorphous porous silica gels in various forms (irregular, micro beads, spherical) with a surface modified with functional groups. In terms of REACH, the silica gel with such a modification is a surface treated material.

This product is an amorphous porous silica gel in irregular shape.

If not stated otherwise, the term products in this certification data sheet refers to the four products above.

CAS-No.: 7631-86-9 EINECS-No.: 231-545-4

REACH-No.: 01-2119379499-16-0036

Customs tariff: 2811.22

# **MANUFACTURER**

The products are manufactured by Zeochem AG, 8707 Uetikon am See, Switzerland. Zeochem AG is ISO 9001:2008 certified.

## **CHEMICAL INVENTORIES**

The products are in compliance with the following chemical inventories:

United States: Toxic Substances Control Act Inventory (TSCA)

Canada: Domestic Substances List (DSL)

European Inventory of Existing Chemical

Substances (EINECS)

Australia: Australian Inventory of Chemical Substances

(AICS)

Korea: Korean Existing Chemicals List (KECL)
Japan: Japanese Existing and New Chemical

Substances Inventory (ENCS)

## SAFETY: THE PRODUCTS POSE NO HEALTH HAZARD

The products are neither toxic, carcinogenic, mutagenic nor teratogenic. The products do not contain traces of hazardous materials or substances mentioned below. The products are neither combustible nor explosive. The surface treated products can be flammable whereas the unmodified ZEOprep is not. Synthetic amorphous silica is not listed in the Regulation (EC) No. 1272/2008.

# PURITY: THE PRODUCTS ARE FREE OF HAZARDOUS MATERIALS OR SUBSTANCES

### NO HAZARDOUS CHEMICAL IMPURITIES

The products do neither contain any heavy metals (lead, mercury, cadmium, chromium), nor poly-brominated aromatic compounds. The products are in agreement with the European Union Directive on Restriction of Use of Certain Hazardous Substances (RoHS) EU Directive 2011/65/EC.



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## NO HAZARDOUS BIOLOGICAL CONTAMINANTS

The products are produced from inorganic chemicals, the surface treated ones subsequently modified with organic chemicals. No components at all are derived from animal or other biological sources that are used for manufacturing the products. The products are therefore free of TSE (Transmissible Spongiform Encephalopathy agent) and GMO (Genetically Modified Organism). They do not contain "Specific Risk Materials" as defined in Annex XI, Section A, to EC Regulation 999/2001/EC.

## **ORGANIC COMPOUNDS**

The unmodified ZEOprep is produced exclusively from inorganic chemicals and does not contain organic compounds or volatile organic compounds (VOC). It also does not contain dimethylfumarate (Commission Decision 2009/251/EC).

All surface modified products do contain covalently bound organic compounds as indicated in the respective specifications. These products do neither contain volatile organic compounds nor dimethylfumarate.

## PRODUCT CONTACT PROPERTIES

The products are not intended to be included in the final goods produced by the user, e.g. food, feed, nutraceuticals, or APIs (active pharmaceutical ingredients). The products are intended to be only temporarily in contact with the produced goods or their intermediates.

## **ENVIRONMENT PRESERVATION MEASURES**

### **OZONE DEPLETING CHEMICALS**

The materials listed in the Regulation (EC) 1005/2009 are not used in the manufacture of the products.

### PRESERVATION OF NATURAL RESOURCES

The silica gel production process has been optimized to be energy efficient and to minimize the use of natural resources. Zeochem's own waste water plant purifies the waste water that permits an authorized discharge. The quality of the purified waste water is monitored by the competent authority to assess whether it meets the requirements of the water quality discharge consent.

### **DISPOSAL OF THE PRODUCTS**

The waste code for unused products in the EU is 06 06 99 (Commission Decision 2014/955/EU), in Switzerland 06 08 99 (www.veva-online.admin.ch; VeVA, SR 814.610). The unused products should be disposed of accordingly following the relevant local legislation.

The disposal of used products depends on the quantity and nature of residuals present after use. The user must consider this for an appropriate disposal strategy to conform his legislation.

# **DISCLAIMER**

The users are advised to make their own determination that the use of our products is safe, lawful (except as provided in this certification) and technically suitable for their applications.



Zeochem AG

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