



Product name: Finex CS16GC

Updated: 30.8.2016

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product Name

Finex CS16GC, Na<sup>+</sup>

#### 1.2 Use

Chromatographic resin for the food industry

#### 1.3 Company Identification

Finex Oy

A Johnson Matthey Company

Seppolantie 1

48230 Kotka

FINLAND

Tel. +358 10 3277 400

Fax. +358 5 2281 180

#### 1.4 Emergency Phone

Contact your local Poison Information Centre, in Finland tel. +358 9 471 977.

### 2. HAZARD IDENTIFICATION

This product has not been classified as hazardous according to the decree (EC) N:o 1272/2008.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Composition

No.		Weight, %
1	Sulphonated polymer of styrene, divinylbenzene and ethylstyrene Na <sup>+</sup> form	50 - 55
2	Water	45 - 50

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**Eye Contact:** Flush with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

**Skin Contact:** Wash skin thoroughly with soap and water.

**Inhalation:** No emergency medical treatment necessary, if breathing difficulties occur, consult a physician. Due to the physical nature of the product inhalation improbable.

**Ingestion:** No emergency medical treatment necessary, swallowing small amounts of product is unlikely to cause any damage. If some symptoms occur, consult a physician.

#### 4.2 Potential Health Effects

**Eye Contact:** Can cause slight irritation to the eyes.

**Skin Contact:** Prolonged or repeated skin contact can cause slight irritation.

**Inhalation:** May cause irritation in the respiratory system, if inhaled.

**Ingestion:** Ingestion of small amounts of product is unlikely to cause any damage.

## 5. FIRE FIGHTING MEASURES

### 5.1 Suitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>) extinguisher, powder extinguisher and water spray.

### 5.2 Special Exposure Hazards

Combustion can generate sulphur dioxide and carbon dioxide.

### 5.3 Fire Fighting Procedures

Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Use protective fire-fighting clothing and self-contained breathing apparatus. If fire-fighting clothing is not available, fight the fire from a sheltered place and/or from a safe distance.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Precautions, personal protective equipment and accidental measures

Spillages will create a slip hazard. Wear adequate personal protective equipment

### 6.2 Environmental Precautions

Prevent entry into drains, sewers and watercourses.

### 6.3 Decontamination Procedures

Transfer material into suitable containers for recovery or disposal.

### 6.4 References to other sections

Section 8 "Exposure Control and Personal Protection", section 12 "Ecological Information", section 13 "Disposal Considerations"

## 7. HANDLING AND STORAGE

### 7.1 Handling

When totally dry, static electricity can accumulate on beads. Keep away from open fire and hot surfaces. May cause slippery surfaces. If product is to be used with strong oxidizing agents, such as nitric acid, chromic (VI) and chlorate (V) ions, halogens, peroxy compounds, use experts to evaluate safe operating conditions. If the products ionic form is changed, it may swell. Take this into account when packing the column.

### 7.2 Storage

Avoid dehydration. Recommended storage temperature between +0–30 °C. If product gets frozen, melt it at normal room temperature. Avoid repeated freezing and melting.

### 7.3 Special Use

There are no instructions for special use.

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

### 8.1 Exposure Limits

No exposure limits determined for the product.

### 8.2 Prevention of Exposure

**Occupational Exposure Control:** General climate control

**Eye Protection:** Use safety glasses (standard EN 166 or similar)

**Skin Protection:** Avoid skin contact. Wear suitable protective clothing.

**Hand Protection:** Use protective gloves (standard EN 374 or similar)

**Respiratory Protection:** No respiratory protection needed in normal working conditions.

**Thermal Danger:** Not applicable

**Prevention of Ecological Exposure:** See section 12.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 General Physical and Chemical Properties

<b>Physical state</b>	Solid (beads)
<b>Colour</b>	Amber
<b>Odour</b>	Odourless
<b>pH</b>	6–8 (in 10 % water solution)
<b>Boiling point</b>	Not applicable
<b>Flammability point</b>	Not applicable
<b>Inflammability</b>	Not applicable
<b>Explosion properties</b>	Not applicable
<b>Oxidizing properties</b>	Not applicable
<b>Vapour pressure</b>	Not applicable
<b>Specific gravity</b>	1.04–1.4 g/cm <sup>3</sup> (water = 1 g/cm <sup>3</sup> )
<b>Solubility in water</b>	Insoluble
<b>Solubility in fat</b>	Insoluble
<b>Decomposition factor</b>	Not applicable
<b>Viscosity</b>	Not applicable
<b>Vapour density</b>	Not applicable
<b>Evaporation rate</b>	Not applicable

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Not reactive in the recommended storage conditions, see section 7.

### 10.2 Chemical Stability

Stable in the recommended storage conditions, see section 7.

### 10.3 Possible Dangerous Reactions

No known dangerous reactions.

### 10.4 Conditions to avoid

Avoid temperatures over 120 °C.

### 10.5 Materials to avoid

Strong oxidizing agents.

### 10.6 Dangerous Decomposition Products

Sulphur and carbon oxidation products when heated.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information about Toxicological Effects

**Acute Toxicity:** The product is not known to be acutely toxic.

**Skin Irritation:** Does not normally irritate skin. May cause irritation, if gets in contact with scratched or wounded skin.

**Severe Eye Damage/Irritation:** May cause irritation or abrasion damage due to mechanical effect.

**Sensitization of Respiratory System or Skin:** The product is not known to cause sensitization.

**Mutagenic Effects:** There is no evidence of the product being mutagenic.

**Carcinogenic Effects:** There is no evidence of the product being carcinogenic.

**Reproduction Damaging Effects:** There is no evidence of the product causing damage for reproduction.

**Toxicity to Organs:** No toxic effects from single or repeated exposure.

**Aspiration Danger:** Due to the physical characteristics of it, the product is not expected to cause problems upon aspiration.

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

It is not expected that the product would cause acute toxicity to the environment.

### 12.2 Permanence and Decomposition

It is expected that the product is inert to the environment. Sunlight may cause photochemical degradation of the surface. No significant biological degradation expected

### 12.3 Bioaccumulation Potential

No bioaccumulation expected due to the large molecule weight of the product.

### 12.4 Mobility in the Soil

It is expected that the product remains in the soil. In water environment it descends and remains in the sediment.

### 12.5 PBT and vPvB Evaluation Results

Not defined.

### 12.6 Other Hazardous Effects

No other hazardous effects known for the environment.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Disposal Considerations

Local and national decrees must be complied when disposing the product. Pure ion exchange resins are not considered as hazardous waste material, and they can be disposed of on a municipal landfill. Incineration is not an appropriate way of treatment of ion exchange resins, especially if they contain chlorine residues.

The resins are, however, considered as hazardous waste, if during the use of the resin any hazardous chemical has adsorbed into it and the amount of this chemical exceeds concentration limit. The concentration limit depends on the characteristics of the hazardous chemical. If the resin is considered hazardous waste, because of the adsorbed hazardous material, it needs to be disposed of in accordance with local and/or national procedures by an approved waste disposal contractor. Seek further advice if required.

## 14. TRANSPORT INFORMATION

### 14.1 UN-Number

Not applicable

### 14.2 Proper Shipping Name

See section 1.1

### 14.3 Hazard Label

Not applicable

### 14.4 Packing Group

Not applicable

### 14.5 Environmental Hazards

See section 12.

### 14.6 Special precautions for use

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There are no special precautions.

**14.7 Transportation as Separate Cargo According to MARPOL 73/78 Agreement II Appendix and IBC Decrees**

Not applicable.

**15. REGULATORY INFORMATION**

**15.1 Health, Safety and Environmental Legislations Considering the Product**

Not applicable

**15.2. Chemical Safety Evaluation**

Not applicable: the product does not require REACH registration.

**16. OTHER INFORMATION**

The information contained herein relates only to the specific material identified. Finex Oy believes that this information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. Finex Oy urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.