



Product name: Finex CS11GC

Updated: 30.8.2016

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name
Finex CS11GC

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 Ca ²⁺ form	45 - 50
2	Water	50 - 55

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 (CO₂) 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

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

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.