



Material Safety Data Sheet

“CP Oat Beta Glucan Liquid”

1. Identification of the Product and Company

1.1. Product No./Trade Name: 901-3045/CP Oat Beta Glucan Liquid
INCI Proposed Name: Betaglucan

1.2. Supplier Details Ceapro Inc.
Suite 4174 Enterprise Square
10230 Jasper Avenue NW
Edmonton, Alberta T5J 4P6
Telephone: 780-421-4555
Fax: 780-421-1320

2. Composition/Information on Ingredients

Mixture of natural, raw materials extracted from Oats (*Avena sativa*)

Chemical Names: Beta 1, 3, Beta 1, 4 Glucan (in aqueous solution)

CAS#: 9012-72-0 (beta-(1,3)-D-Glucan)

EINECS#: 232-739-1

CAS#: 532-32-1 (Sodium benzoate)

EINECS#: 208-534-8

CAS#: 590-001 (Potassium sorbate)

EINECS#: 203-768-7

3. Hazards Identification

NFPA Ratings (scale 0-4): Health =1 Fire =1 Reactivity =0

4. First Aid Measures

Emergency and first aid procedures: May cause slight, transient eye irritation. In case of eye contact, immediately flush eyes with water for at least 15 minutes. In case of skin contact, wash skin with soap and water. If swallowed, induce vomiting by either giving IPECAC Syrup or by placing finger at back of throat. Seek medical attention.

5. Fire Fighting Measures

Flash point (method use): None

Extinguishing media: Carbon dioxide, dry chemical powder or appropriate foam.

Unusual fire and explosive hazards: None

Special fire fighting procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

Steps to be taken in case material is released or spilled: Eliminate all ignition sources. Wear protective clothing, absorb on sand or vermiculite and contain for salvage or waste disposal. Ventilate area and wash spill site after material pick-up is complete.

Waste disposal method: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all local, provincial, and federal environmental regulations.

7. Shipping, Handling and Storage

7.1. Shipping

Precautions to be taken during shipping: Protect from freezing.

Minimum recommended temperature during transportation – greater than 5°C (41°F)

7.2 Handling:

Advice on safe handling: No special measures necessary if used correctly.

Wear safety glasses, use safety goggles where a mist may be generated.

Advice on protection against fire and explosion: Observe the usual safety precautions when handling chemicals.

7.3. Storage

Precautions to be taken in handling and storage: Store at room temperature only. Any unused portion should be kept sealed in the original container to avoid any contamination. Mix well before use. If agglomeration has occurred, warm the product to 60°C and mix; if an aqueous suspension or liquid is obtained which has a pleasant or no odour, and no colour change, then the product can still be used. If agglomeration remains after warming to 60°C, do not use.

8. Exposure Controls/Personal Protection

Precautions to be taken in handling and storage: Store at room temperature only

Ventilation requirement: Normal ventilation is adequate.

Mechanical (general): Mechanical exhaust required

Protective equipment (speciality types): None.

Eye: Use of chemical resistant safety goggles is recommended when handling chemical materials

Gloves: Chemical-resistant gloves.

Respirator: NIOSH/MSHA approved respirator.

Other precautions and other protective equipment: Avoid inhalation; avoid contact with eyes, skin and clothing. Wash contaminated clothing before reuse.

Eliminate all ignition sources.

9. Physical and Chemical Properties

Appearance: colorless to pale amber, clear or hazy liquid

Odour: Characteristic oat odour

Melting point (°C): Not applicable

Boiling point: (°C): *Note: to be measured*

Specific gravity: *Note: to be measured*

Solubility in water: Soluble in water and glycerol. Not soluble in ethanol or silicone oil.

Vapour pressure (mm Hg): Not applicable

Vapour density (Air=1): Not applicable

Preservative added: . 0.5% Sodium benzoate + 0.3% Potassium sorbate

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage

Hazardous polymerization: No information found

Incompatibility: Sulphuric acid, nitric acid, oxygen, strong oxidizing agents



Incompatibility (materials to avoid): Oxidizing materials
Hazardous decomposition products: Oxides of carbon

11. Toxicological Information

This product has been manufactured according to the directives of IFRA and is not considered harmful if used properly.

12. Ecological Information

Do not discharge product unmonitored into the environment. See 6.

13. Disposal Considerations

Packaging and product must be disposed of according to the applicable and approved local, provincial, and federal regulations in force.

14. Transportation Information

GGVSee/IMDG - Code
ICAO/IATA - DRG
GGVS/ADR
GGVE/RID
UN-NR

Customs Nr. 3302.9000

not restricted
not restricted
not restricted
not restricted
not restricted

15. Regulatory Information

The product is classified and labelled in accordance with EC directives 88/379/EWG: none

16. Other Information

This information is given in good faith, and is intended to be helpful, but no warranty or guarantee of any kind, concerning any product, formulation, or procedure referred to herein is hereby given, or that the sale or use of the product, formulation, or procedure will not infringe any patent or any other right in Canada or country of the world, and no permission or recommendation to practice any invention covered by any applicable patent or other right is hereby given, expressed, or implied. Ceapro Inc. recommends that customers shall independently test and evaluate their products and processes in which Ceapro products are used in order to decide their safety and effectiveness.

See purchase invoice for additional terms and conditions of sale.

Emergency telephone number: +1 780.421.4555 **Contact:**

David Fielder
Chief Scientific Officer

Prepared by Ceapro Inc., Edmonton

January 11, 2011

