



# Safety Data Sheet

Original Preparation Date: 06-Nov-2009

Revision Date: 02-May-2017

Revision Number: 1

## 1. Identification

**Product Name:**

Liquid Gold® (Steepwater)

**Product Code:**

014500

**Synonyms:**

Corn Steepwater, Corn steep liquor, Condensed fermented corn extractives.

**Use of the Substance / Preparation:**

Animal Feed

**Contact Distributor:**

Silver Fern Chemical, Inc.  
2226 Queen Anne Avenue North  
Seattle WA 98109, USA

**Business Contact**

Customer Service: 1-866-282-3384  
info@silverfernchemical.com

**24 Hour Emergency Contact** Infotrac 800-535-5053

Outside USA & Canada 352-323-3500

## 2. Hazard(s) identification

### Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Appearance**

Tan - Brown

**Physical State**

Liquid

**Odor**

Characteristic

**This product is NOT classified as hazardous according to the criteria contained in the Hazard Communication Standard 29 CFR 1910.1200 (known as HCS 2012) or the Hazardous Products Regulations SOR/2015-17 (known as WHMIS 2015).**

## 3. Composition/information on ingredients

**Common Name**

Corn Steepwater

**Non-hazardous Components**

Chemical Name	CAS-No	Weight %	North American Substance Hazard Class
Corn, steep liquor	66071-94-1	100	None known

## 4. First-aid measures

### Description of first aid measures

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids.

**Skin Contact** Wash off immediately with plenty of water.

**Inhalation** Move to fresh air in case of accidental inhalation of vapours or decomposition products.

**Ingestion** Not for human consumption. Health injuries are not known or expected under normal use.

### Most important symptoms and affects, both acute and delayed

**Eyes** Contact with eyes may cause irritation.

**Skin** Prolonged skin contact may cause skin irritation. Contact with product at elevated temperatures can result in thermal burns.

**Inhalation** Avoid breathing vapors or mists. Health injuries are not known or expected under normal use.

**Ingestion** Not for human consumption. Over exposure may cause: Gastrointestinal disturbance.

### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

## 5. Fire-fighting measures

### Flammable Properties

Not applicable.

### Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** None known.

### Special hazards arising from the substance or mixture

**Hazardous Combustion Products** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

**Specific Hazards Arising from the Chemical** None known.

**Sensitivity to mechanical impact** No information available.

**Sensitivity to static discharge** No information available.

### Advice for fire-fighters

**Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### NFPA



**Health** 0  
**Flammability** 0

**Stability and Reactivity** 0  
**Physical hazard** None known

## 6. Accidental release measures

### **Personal Precautions, Protective Equipment, and Emergency Procedures**

Ensure adequate ventilation.

### **Environmental Precautions**

Prevent further leakage or spillage if safe to do so. Try to prevent the material from entering drains or water courses.

### **Methods and Materials for Containment and Cleaning Up**

Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

## 7. Handling and storage

### Handling

Ensure adequate ventilation.

### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure controls/Personal protection

### Exposure Limits

This product is not known to contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Biological Limit Values

No biological limit values have been listed for the component(s) of this product.

### Appropriate Engineering Controls

Ensure that eyewash stations and safety showers are close to the workstation location.  
Ensure adequate ventilation, especially in confined areas.

### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

### Personal Protective Equipment

#### Eye/face Protection.

Safety glasses with side-shields. If splashes are likely to occur, wear goggles

#### Skin and Body Protection

Impervious gloves.

#### Respiratory Protection

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection.



## 9. Physical and chemical properties

<b>Appearance</b>	Tan - Brown
<b>Physical State</b>	Liquid
<b>Odor</b>	Characteristic
<b>Odor Threshold</b>	No information available
<b>pH</b>	3
<b>Flash Point</b>	No information available
<b>Autoignition Temperature</b>	No information available
<b>Boiling point</b>	Approx. 101 °C / 214 °F
<b>Melting/Freezing Point</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Oxidizing Properties</b>	No information available
<b>Water Solubility</b>	Soluble to Partly soluble
<b>Evaporation Rate</b>	No information available
<b>Vapor Pressure</b>	17.5 mmHg
<b>Vapor Density</b>	No information available
<b>Specific Gravity / Relative Density</b>	1.15-1.25 (H2O=1)
<b>Partition Coefficient (n-octanol/water)</b>	No information available

## 10. Stability and reactivity

**Stability** Stable under normal conditions.

**Possibility of Hazardous Reactions** Hazardous polymerization does not occur.

**Conditions to Avoid** None known.

**Incompatible Materials** No materials to be especially mentioned.

**Hazardous Decomposition Products** Carbon oxides. Carbon monoxide (CO).

## 11. Toxicological information

### Information on toxicological effects

<b>Acute toxicity</b>	Based on available data, no evidence of acute toxicity.
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

### Potential health effects

<b>Eyes</b>	Contact with eyes may cause irritation.
<b>Skin</b>	Prolonged skin contact may cause skin irritation. Contact with product at elevated temperatures can result in thermal burns.
<b>Inhalation</b>	Avoid breathing vapors or mists. Health injuries are not known or expected under normal use.
<b>Ingestion</b>	Not for human consumption. Over exposure may cause: Gastrointestinal disturbance.

## 12. Ecological information

### Ecotoxicity

Contains no substances known to be hazardous to the environment. Contains no substances known to be not degradable in waste water treatment plants.

<b>Persistence/Degradability</b>	Biodegradable.
<b>Mobility</b>	Partly soluble in water.
<b>PBT and vPvB assessment</b>	No information available.
<b>Other adverse effects</b>	Nothing specific known.

## 13. Disposal considerations

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

<b>Waste Disposal Methods</b>	Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction.
<b>Contaminated Packaging</b>	Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.

## 14. Transport information

### Domestic transport regulations (USA)

DOT Not regulated.

### Domestic transport regulations (Canada)

TDG Not regulated.

### Domestic transport regulations (Mexico)

MEX Not regulated.

### International transport regulations

ICAO Not regulated.  
 IATA Not regulated.  
 IMDG/IMO Not regulated.

## 15. Regulatory information

### International Inventories

As animal feed, this product is exempted from the following inventories: U.S.A. (TSCA). When used as "feed" defined in the Canadian Feeds Act 1995 and the Feeds Regulations (SOR/83-592), this product is exempted from the following inventory: Canada (DSL).

### USA

#### Federal Regulations

##### **Ozone Depleting Substances:**

No Class I or Class II material is known to be used in the manufacture of, or contained in, this product.

##### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.

##### **CERCLA/SARA 103-302**

Sections 103-302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 103-302.

##### **SARA 311/312 Hazardous Categorization**

Refer to the OSHA hazard classification(s) provided in section 2 of this SDS.

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

##### **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 63)**

This product is not known to contain any HAPS.

#### State Regulations

##### **State Right-to-Know**

No known components subject to "Right-To-Know" legislation in the following States.

Chemical Name	Weight %	Massachusetts	Minnesota	New Jersey	Pennsylvania
Corn, steep liquor	100	No	No	No	No

### Canada

##### **(NPRI) Canadian National Pollutant Release Inventory**

No known component is listed on NPRI.

### Mexico

**Mexico - Grade** Minimum risk, Grade 0

## 16. Other information

**Prepared By:** ADM Corn Processing  
**Original Preparation Date:** 06-Nov-2009  
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**Revision Number:** 1

**Reason for revision:** New SDS format. This version replaces all previous versions.

**Abbreviations and acronyms**

A1 - Known Human Carcinogen  
A2 - Suspected Human Carcinogen  
A3 - Animal Carcinogen  
A4 - Not classifiable as a human carcinogen  
ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values  
CAS - Chemical Abstract Service  
Ceiling - Ceiling Limit Value: Concentrations that should never be exceeded at any given time (instantaneous)  
CHINA - Chinese Inventory of Existing Chemical Substances (China)  
CLP - Classification, Labelling and Packaging, Regulation (EC)1272/2008  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
Delisted - Substances Delisted from Report on Carcinogens  
DNEL - Derived No Effect Level  
DOT - U.S. Department of Transportation  
DSL - Domestic Substance List (Canada)  
EC - European Commission  
EC No. - European Community number  
EC50 - Half maximal effective concentration  
EINECS - European Inventory of Existing Commercial Chemical Substances (EU)  
ELINCS - European List of Notified Chemical Substances (EU)  
ENCS - Existing and New Chemical Substances (Japan) / ISHL - Industrial Health and Safety Law (Japan)  
EPCRA - Emergency Planning and Community Right-to-Know Act of 1986 (USA)  
FOSFA - The Federation of Oils, Seeds and Fats Associations  
GHS - Globally Harmonized System of Classification and Labelling of Chemicals  
Group 1 - Carcinogenic to Humans  
Group 2A - Probably Carcinogenic to Humans  
Group 2B - Possibly Carcinogenic to Humans  
Group 3 - Not Classifiable  
IARC - International Agency for Research on Cancer  
IATA - International Air Transport Association Dangerous Goods Regulations  
IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
ICAO - International Civil Aviation Organisation  
ICL - In Commerce List (Canada)  
IDLH - Immediately Dangerous to Life or Health  
IMDG - International Maritime Dangerous Goods Code  
IMO - International Maritime Organization  
IUB - International Union of Biochemistry and Molecular Biology  
KECL - Korean Existing and Evaluated Chemical Substances (Korea)  
Known - Known Carcinogen  
LC50 - Lethal concentration that produces fatalities in 50% of a given test population  
LD50 - Median lethal dose of a given test population  
Marpol - International Convention for the Prevention of Pollution From Ships  
MEPC - Marine Environment Protection Committee  
MEX - NOM-002-SCT/2003 List of Hazardous Substances and Materials Most Commonly Transported  
MEXICO - Mexico Occupational Exposure Limits  
NDSL - Non Domestic Substances List (Canada)  
NFPA - National Fire Protection Association  
NIOSH - National Institute of Occupational Safety and Health  
NOAEL - No Observed Adverse Effect Level  
NTP - National Toxicology Program  
NZIoC - New Zealand Inventory of Chemicals (New Zealand)  
OECD - Organisation for Economic Co-operation and Development  
OSHA - Occupational Safety & Health Administration  
OSHA PEL - Occupational Safety and Health Administration Permissible Exposure Limits

PICCS - Inventory of Chemicals and Chemical Substances (Philippines)

PNEC - Predicted No-Effect Concentration

Present - Carcinogen or potential carcinogen to be identified under OSHA's Hazard Communication Standard

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

SEN - Sensitizer notation. May reflect risk of dermal and/or inhalation sensitization (consult ACGIH documentation).

Skin notation - Potential for cutaneous absorption

STEL - Short Term Exposure Limit: Concentrations that should not be exceeded except for short periods of time ( usually 15-minutes)

STOT - Specific Target Organ Toxicity

STV - Short Term Value (same as STEL)

TDG - Transportation of Dangerous Goods (Transport Canada)

TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA)

TWA - Time Weighted Average: Average concentration that should not be exceeded during a work day (usually 8-hours)

Under Consideration - Under Consideration by the National Toxicology Program

vPvB - Very Persistent and Very Bioaccumulative

WHMIS - Workplace Hazardous Materials Information System

**The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.**

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