

# Material Safety Data Sheet

## PRODUCT INFORMATION

Product Identity **Enzose™ Brewers' Corn Syrup / Glucose, 015520**

Product Use Food-grade corn syrup / glucose

Company

Corn Products U.S.  
5 Westbrook Corporate Center  
Westchester, IL 60154 USA  
Info/Emergency Phone: (708) 551-2600  
Business Hours: Mon - Fri, 7:30 a.m. - 5:00 p.m.  
(Central Time), Fax: (708) 551-2510

Casco, Inc.  
405 The West Mall, Suite 600,  
Etobicoke, Ontario M9C 1A0 Canada  
Info/Emergency Phone: (416) 620-2300  
Fax: (416) 620-4488

## COMPOSITION/INFORMATION ON INGREDIENTS

Substance	CAS Number	% or Range	Toxicology Data
Corn Syrup / Glucose	8029-43-4	≤100	None available

## HAZARDS IDENTIFICATION

Toxicity	Skin contact is not known to be hazardous to health. Eye contact may cause minor irritation. Ingestion of quantities sufficient to produce adverse health effects is not a plausible route of exposure in industrial use.
Reactivity	The product is non-reactive under foreseeable conditions of use.
Flammability	The product is not flammable.
Corrosivity	The product is not corrosive.

## FIRST AID MEASURES

Inhalation	Remove the subject from the source of exposure.
Skin Contact	Wash affected area with water.
Eye Contact	Flush eyes with water for at least fifteen minutes. Seek medical assistance if necessary.
Ingestion	If large quantities of product are ingested, seek medical attention.

## FIRE AND EXPLOSION HAZARDS AND FIREFIGHTING MEASURES

Hazards	Product as a liquid does not pose explosivity hazards.	
Extinguishing media	Water, carbon dioxide, or dry chemical.	
Fire and Explosion Hazards Data	Flashpoint: no data available Lower Explosive Limit: no data available	Autoignition temperature: no data available Upper Explosive Limit: no data available

# Material Safety Data Sheet

## PREVENTIVE MEASURES

### ◆ Accidental Release Measures

Control Measures	Avoid direct release to environmental media. Contain product for disposal. See Environmental Precautions.
Personal Protection	Avoid contact with skin, eyes, and mucous membranes. Protective equipment is not required for cleanup unless product temperature is sufficient to require precautions.
Environmental Precautions	Dispose of residues in compliance with applicable national, state/provincial, and local regulations.

### ◆ Handling and Storage

Handling	Avoid contact with eyes and skin. Use personal protection appropriate for the product temperature.
Storage	Store product away from incompatible materials (see <i>Stability and Reactivity</i> for incompatible materials).

### ◆ Exposure Controls and Personal Protection

Engineering Controls	None required other than preventing direct contact with product.
Respiratory Protection	Not required under foreseeable conditions of use.
Eye Protection	Wear appropriate eye protection such as goggles or glasses if there is the potential for eye contact with the product.
Skin Protection	Skin protection is needed depending on product temperature.

## PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: liquid	Color/colour: colorless – straw	Odor/odour: None or faint cereal-like
Physical Data	Melting Point: not applicable	Density: 1.424 – 1.431 g/cc (in air @ 20°C)	Water Solubility: soluble
	pH Value: no data available	Odor/odour threshold: no data available	Vapor/vapour Pressure: ≈35-37 mm Hg @ 100°F (38°C)
	Boiling Point: no data available	Freezing Point : no data available	Evaporation Point: no data available
	Vapor Density: no data available		

## STABILITY AND REACTIVITY

Conditions to avoid	This product is stable under normal conditions of temperature and pressure.
Materials to avoid	Oxidizing/oxidising agents.
Decomposition products	Carbon monoxide; carbon dioxide; irritant gasses, and smoke.
Dangerous polymerization/polymerisation	Will not occur.
Dangerous reactions	None are known or reasonably foreseeable.

# Material Safety Data Sheet

## TOXICOLOGICAL INFORMATION

Health Hazards of Product	<b>Routes of Entry:</b> Ingestion. Not absorbed through skin or mucous membranes. <b>Acute Effects:</b> Inhalation, eye contact, or skin contact are not known to be hazardous. <b>Chronic Effects:</b> Adverse effects from chronic ingestion are not known.
Exposure Limits	No data available
Carcinogenicity	IARC: No ACGIH: No NTP (USA): No OSHA (USA): No
Reproductive Toxicity	Corn syrup / glucose is not classified as a reproductive toxin by any authoritative body or regulatory agency.

## TRANSPORT INFORMATION

Shipment of this product is not controlled by ICAO, USDOT, or Canadian TDG regulations.

## REGULATORY INFORMATION

United States	TSCA: All constituents are on EPA's TSCA inventory. CERCLA: Contains no reportable quantity (RQ) substances per Sections 302/304. SARA: Contains no chemicals subject to the reporting requirements of Sections 311/312/313. FDA: Classified as <i>Generally Regarded as Safe</i> (GRAS).
Canada	WHMIS Classification(s): not applicable DSL: Glucose is included. Food and Drug Act: Glucose is regulated as a standard foodstuff.

## PREPARATION INFORMATION

Preparer/Responsible Party	Paul Zwijack Corn Products U.S. 5 Westbrook Corporate Center Westchester, IL 60154 USA Corn Products International, Inc.	Doug Hobbs 405 The West Mall, Suite 600, Etobicoke, Ontario M9C 1A0 Canada
Revision Information	Date of revision: January 1, 2007 Supersedes previous MSDS dated: November 6, 2006	

## DISCLAIMER OF EXPRESSED OR IMPLIED WARRANTIES

The attached data has been compiled from sources which Corn Products International, Inc. and Casco, Inc., in good faith, believe to be dependable and is accurate and reliable to the best of our knowledge and belief. However, Corn Products and Casco cannot make any warranty or representation respecting the accuracy or completeness of the data and assume no responsibility for any liability or damages relating thereto or for advising you regarding the protection of your employees, customers, or others. (Users should make their own tests to determine the applicability of such information or the suitability of any products for specific use.)