



**Green Plains**  
**GHS SAFETY DATA SHEET**  
 SYRUP

SDS DATE: 07/29/2020

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME (GHS Product Identifier):** Syrup  
**(Other means of Identification):** Condensed Distillers Soluble

**PRODUCT INTENDED USE AND RESTRICTION:** Animal feed

**ENTITY CHECKED BELOW:**

<b>Green Plains Atkinson LLC.</b> 87590 Hill Crest Rd. Atkinson, NE 68713 P.O. Box 391, Atkinson, NE 68713 Phone: 402-925-5570 Fax: 402-925-2988 <input checked="" type="checkbox"/>	<b>Green Plains Central City LLC.</b> 214 20 <sup>th</sup> St., Central City, NE 68826 Phone: 308-946-9700 Fax: 308-946-9790 <input checked="" type="checkbox"/>	<b>Green Plains Fairmont LLC.</b> 1125 N Bixby Road, Fairmont, MN 56031 Phone: 507-238-3600 Fax: 507-238-3624 <input checked="" type="checkbox"/>	<b>Green Plains Hereford LLC</b> 4300 County Road 8 Hereford, TX 79045 Phone: 806-258-7800 Fax: 806-258-7801 <input checked="" type="checkbox"/>	<b>Green Plains Madison LLC</b> 395 Bissell St Madison, IL 63060 Phone: 618-451-4420 Fax: 618-452-8946 <input checked="" type="checkbox"/>
<b>Green Plains Mt Vernon LLC</b> 8999 W Franklin Rd Mt Vernon, IN 47620 Phone: 812-985-7480 Fax: 812-985-7483 <input checked="" type="checkbox"/>	<b>Green Plains Obion LLC.</b> 2098 McDonald Rd., Rives, TN 38253/P.O. Box 95, Obion, TN 38240 Phone: 731-536-1286 Fax: 731-536-1434 <input checked="" type="checkbox"/>	<b>Green Plains Ord LLC.</b> 48267 Val-E Road, Ord, NE 68862 Phone: 308-496-4800 Fax: 308-496-4890 <input checked="" type="checkbox"/>	<b>Green Plains Otter Tail LLC.</b> 24096 170th Ave., Fergus Falls, MN 56537 Phone: 218-998-4301 Fax: 218-998-4302 <input checked="" type="checkbox"/>	<b>Green Plains Shenandoah LLC.</b> 4124 Airport Rd., Shenandoah, IA 51601 Phone: 712-246-2932 Fax: 712-246-3988 <input checked="" type="checkbox"/>
<b>Green Plains Superior LLC.</b> 1495 320th Ave, Superior, IA 51363 Phone: 712-858-4666 Fax: 712-858-4684 <input checked="" type="checkbox"/>	<b>Green Plains Wood River LLC.</b> 7874 South 140th Road, Wood River, NE 68883 Phone: 308-385-1200 Fax: 308-385-9990 <input checked="" type="checkbox"/>	<b>Green Plains York LLC</b> 1414 County Rd O York, NE 68467 Phone: 402-362-0088 Fax: 402-362-7041 <input checked="" type="checkbox"/>		
<b>Green Plains Grain Company LLC. Archer</b> 2132 Archer Road Archer, NE 68816 Phone: 308-795-2211 <input type="checkbox"/>	<b>Green Plains Grain Company LLC. Cimarron</b> 19016 Road I Kismet, KS 67859 Phone: 620-624-6296 Fax: 620-624-4411 <input type="checkbox"/>	<b>Green Plains Grain Company LLC. Essex</b> 411 North Street, Essex, IA 51638 Phone: 712-379-3155 Fax: 712-379-3175 <input type="checkbox"/>	<b>Green Plains Grain Company LLC. Hopkins</b> 200 N. Railroad Hopkins, MO 64461 Phone: 660-778-3331 Fax: 660-778-3676 <input type="checkbox"/>	

**CHEMTREC PHONE (24HR Emergency Telephone):** 1-800-424-9300 (Within U.S.A)

**INTERNATIONAL CHEMTREC CALL:** 1-703-527-3887

**OTHER CALLS:** 1-402-884-8700 (M-F, 8 AM-5 PM, Central time (U.S.A & Canada); within U.S.A)

**FAX PHONE:** 1-402-884-8776 (M-F, 8 AM-5 PM, Central time (U.S.A & Canada); within U.S.A)

**SECTION 1 NOTES:** Syrup is the liquid remains of grain fermentation residue after distillation. No ethanol is present. No hazardous compounds are known to be present.

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS LABELING AND CLASSIFICATION:** This product meets the definition of the following hazard classes as defined by the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

**GHS CLASSIFICATION ACCORDING TO ANNEX II:**

HEALTH	ENVIRONMENTAL	PHYSICAL
Not Classified	Not Classified	Not classified
<b>SIGNAL WORD:</b>		<b>NONE</b>
<b>SYMBOL:</b>		N/A



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<b>HAZARD STATEMENT:</b>		N/A
<b>PRECAUTIONARY STATEMENTS:</b>	<b>PREVENTIVE:</b>	N/A
	<b>RESPONSE:</b>	N/A
	<b>STORAGE:</b>	N/A
	<b>DISPOSAL:</b>	N/A

Any Regional Considerations: N/A

SECTION 2 NOTES: N/A

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**CHEMICAL NAME:** Condensed Distillers Solubles  
**COMMON NAME:** Syrup  
**CHEMICAL FAMILY:** N/A  
**CHEMICAL FORMULA:** N/A  
**SYNONYMS:** Condensed Distillers Solubles

**INGREDIENT:** Condensed distillers Solubles  
 Water

<u>NAME</u>	<u>CAS#</u>	<u>EC#</u>	<u>ICSC#</u>	<u>% WT</u>	<u>% VOL</u>
Condensed Distillers Solubles	N/A	N/A	N/A	60.0%	N/A
Water	7732-18-5	231-791-2	N/A	40.0%	N/A

### CARCINOGENICITY

**OSHA:** NOT LISTED  
**OTHER:** N/A

**ACGIH:** NOT LISTED

**NTP:** NOT LISTED

**IARC:** NOT LISTED

**IMPURITIES/STABILIZING ADDITIVES IDENTIFICATION:** N/A

**IMPURITIES/STABILIZING ADDITIVES CLASSIFICATION (if applicable):** N/A

**SECTION 3 NOTES:** None Available

## SECTION 4: FIRST AID MEASURES

*Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to health professional with contaminated individual.*

**EMERGENCY OVERVIEW:** Avoid body contact; avoid ingestion; wear appropriate PPEs

### ROUTES OF ENTRY/FIRST AID:

**EYES CONTACT:** Flush with clean water

**SKIN CONTACT:** Flush with clean water

**INHALATION:** Remove victim to fresh air and seek medical attention if necessary

**INGESTION:** Seek medical attention if discomfort is noted

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** N/A

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Condensed distillers soluble are an animal feed product. Health effects upon exposure or ingestion are expected to be minimal

**SECTION 4 NOTES:** None Available

## SECTION 5: FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use media suitable to extinguish surrounding fire

**PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS:** Wear appropriate PPEs



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**UNUSUAL FIRE AND EXPLOSION HAZARDS:** N/A

(Define specific hazards arising from the chemical e.g., nature of any hazardous combustion products)

**HAZARDOUS DECOMPOSITION PRODUCTS:** N/A

**FLAMMABLE LIMITS IN AIR (% by volume):**

UPPER LIMIT: N/A

LOWER LIMIT: N/A

**FLASH POINT:**

F: N/A

C: N/A

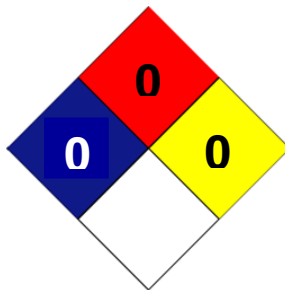
**METHOD USED:** N/A

**AUTOIGNITION TEMPERATURE:**

F: N/A

C: N/A

**NFPA HAZARD CLASSIFICATION:**



HEALTH=0  
FLAMMABILITY=0  
REACTIVITY=0  
OTHER=N/A

**HMIS HAZARD CLASSIFICATION (0-4 scale):**

Syrup	
HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B
Safety glasses, glove	

**SECTION 5 NOTES:** None Available

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:** Condensed distillers soluble are an animal feed product. Health effects upon exposure or ingestion are expected to be minimal

**ENVIRONMENTAL PRECAUTIONS:** Keep product away from sewers, aquatic water bodies

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Stop spill at source. Confine spill by diking or impoundment. Clean-up spill but do not flush to sewer or surface water

**SECTION 6 NOTES:** N/A

## SECTION 7: HANDLING AND STORAGE

**PRECAUTION FOR SAFE HANDLING:** Avoid contact with eyes and mucous membranes. Use protective equipment appropriate for the product temperature

**CONDITIONS FOR SAFE STORAGE (any incompatibilities):** Store in a cool dry place away from incompatible materials

**SECTION 7 NOTES:** None Available

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**EXPOSURE LIMITS/GUIDELINES:**

INGREDIENTS	ACGIH	NIOSH	OSHA-FINAL PELs
Corn syrup	N/A	N/A	N/A OSHA PEL-TWA; N/A OSHA PEL-STEL; N/A OSHA



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			PEL-Ceiling
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**ENGINEERING CONTROLS:**

**VENTILATION:** Local ventilation and dilution ventilation

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

**EYE PROTECTION:** Safety glasses

**SKIN PROTECTION:** Gloves

**RESPIRATORY PROTECTION:** N/A

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Wear appropriate PPEs when product is hot.

**SECTION 8 NOTES:** None Available

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE:** Tan color

**PHYSICAL STATE:** Liquid

**COLOR:** Tan color

**ODOR:** Sweet smell

**pH AS SUPPLIED:** 3-4

**pH (Other):**

**FREEZING POINT:** N/A

**F:**

**C:**

**BOILING POINT:** N/A

**F:**

**C:**

**MELTING POINT:** N/A

**F:**

**C:**

**FLASH POINT:** N/A

**F:**

**C:**

**EVAPORATION RATE (BASIS=1):** N/A

**FLAMMABILITY (by % volume):**

**UPPER FLAMMABILITY LIMIT:** N/A

**LOWER FLAMMABILITY LIMIT:** N/A

**VAPOR PRESSURE (mmHg):** N/A

**@**

**F:**

**C:**

**VAPOR DENSITY (AIR = 1):** N/A

**@**

**F:**

**C:**

**SOLUBILITY IN WATER:** Soluble

**PARTITION COEFFICIENT n-octanol/water:** N/A



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**AUTO-IGNITION TEMPERATURE:** N/A

F:  
C:

**DECOMPOSITION TEMPERATURE:** N/A

F:  
C:

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** N/A

@  
F:  
C:

**PERCENT SOLIDS BY WEIGHT:** About 60%

**PERCENT VOLATILE:** N/A  
BY WT/BY VOL @

F:  
C:

**VOLATILE ORGANIC COMPOUNDS (VOC):**

<b>WITH WATER:</b>	N/A	<b>LBS/GAL</b>
<b>WITHOUT WATER:</b>	N/A	<b>LBS/GAL</b>

**MOLECULAR WEIGHT:** N/A

**VISCOSITY:** N/A

@  
F:  
C:

**SECTION 9 NOTES:** None Available

## SECTION 10: STABILITY AND REACTIVITY

**REACTIVITY:** No reaction with water and common materials

**STABILITY:** This product is susceptible to degradation by growth of microorganisms on exposed surfaces over time

**CONDITIONS TO AVOID (STABILITY):** Avoid contact with strong oxidizers

**POSSIBILITY OF HAZARDOUS REACTIONS:** No polymerization

**INCOMPATIBILITY MATERIAL:** Oxidizing agents

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide; carbon dioxide; irritant gases, and smoke

**SECTION 10 NOTES:** None Available

## SECTION 11: TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** The toxicity data of this product has not been determined by testing or research, but to our best knowledge, this product is non-toxic.

**ROUTES OF EXPOSURE:** Ingestion

**SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:**

**CONTACT WITH EYE:** Product may be considered an eye irritant. The effect is temporary

**CONTACT WITH SKIN:** May cause irritation to skin

**INHALATION:** N/A

**INGESTION:** N/A

**DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT- AND LONG-TERM EXPOSURE:**



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**ACUTE INHALATION EFFECTS:** Human, inhalation, TC<sub>10</sub>: No data

**ACUTE ORAL EFFECTS:** Rat, oral, LD<sub>50</sub>: Not applicable

**CHRONIC EFFECTS:** Not Applicable

**NUMERICAL MEASURES OF TOXICITY:**

**LD50/LC50:** No data available

**IRRITATION DATA:** No data available

**CARCINOGENICITY:** No data available

**EPIDEMIOLOGY:** No data available

**TERATOGENICITY:** No data available

**REPRODUCTIVE EFFECTS:** No data available

**NEUROTOXICITY:** No data available

**MUTAGENICITY:** No data available

**OTHER:** No data available

**SECTION 11 NOTES:** None Available

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## SECTION 12: ECOLOGICAL INFORMATION

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**ECOTOXICITY (AQUATIC AND TERRESTRIAL, WHERE AVAILABLE):** N/A

**PERSISTENCE AND DEGRADABILITY:** When spilled on land, syrup is expected to biodegrade

**BIOACCUMULATIVE POTENTIAL:** N/A

**MOBILITY IN SOIL:** Expected to be mobile in soil

**OTHER ADVERSE EFFECTS:** N/A

**SECTION 12 NOTES:** None Available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**DISPOSAL METHOD:** All recovered material should be labeled, packages, transported and disposed of or reclaimed in conformance with applicable state and federal laws and regulations

**RCRA HAZARD CLASS:** N/A

**DESCRIPTION OF WASTE RESIDUES AND INFORMATION ON THEIR SAFE HANDLING AND METHODS OF DISPOSAL, INCLUDING ANY CONTAMINATED PACKAGING:** Recommend using a non-hazardous solvent to remove the product. Follow local, state, and federal regulations for disposal of the waste material, regardless of its waste classification

**SECTION 13 NOTES:** None Available

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## SECTION 14: TRANSPORT INFORMATION

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**U.N. GHS TRANSPORT REQUIREMENT**

**UN NUMBER:** N/A

**PROPER SHIPPING NAME:** Syrup

**TRANSPORT HAZARD CLASS:** N/A

**PACKING GROUP:** N/A

**LABEL STATEMENT:** N/A

**MARINE POLLUTANT:** No



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**SPECIAL PRECAUTIONS FOR USER:** N/A

**SECTION 14 NOTES:** None Available

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### SECTION 15: REGULATORY INFORMATION

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#### U.S. FEDERAL REGULATIONS

**TOXIC SUBSTANCE CONTROL ACT (TSCA):** All chemicals are listed or exempt from listing in the toxic substances control act inventory

**OCCUPATIONAL, SAFETY AND HEALTH ADMINISTRATION (OSHA):** Not an OSHA specifically regulated substance

**COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT (CERCLA):** This product is not a listed hazardous substance and does not have a reportable quantity

**CLEAN WATER ACT (CWA):** N/A

**CLEAN AIR ACT (CAA):** N/A

**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III INFORMATION:**

**SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES:** N/A

**SARA SECTION 311/312 (40 CFR 370) HAZARD CATEGORIES:** N/A

**SARA 313 REPORTABLE INGREDIENTS:** N/A

**STATE REGULATIONS:** N/A

**INTERNATIONAL REGULATIONS:** N/A

**SECTION 15 NOTES:** None Available

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### SECTION 16: OTHER INFORMATION

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**DISCLAIMER:** The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

#### REFERENCES:

GHS Annex II  
GHS SDS Instruction

#### ACRONYMS/ABBREVIATIONS:

ACGIH-American Conference of Governmental Industrial Hygienists  
CAA-Clean Air Act  
CAS-Chemical Abstracts Service  
CERCLA-Comprehensive Response Compensation and Liability Act  
CHEMTREC-It serves as a round-the-clock resource for obtaining immediate response information for incidents involving hazardous material and dangerous goods.  
CWA-Clean Water Act  
EC-European Commission  
GHS-Globally Harmonized System of Classification and Labeling of Chemicals  
IARC-International Agency for the Research on Cancer  
ICSC-International Chemical Safety Cards  
LC50-The concentration of a chemical in air or of a chemical in water which causes the death of 50% of a group of test animals.  
LD50-The amount of a chemical, given all at once, which causes the death of 50% of a group of test animals.  
NIOSH-The National Institute for Occupational Safety and Health  
NTP-National Toxicology Program  
OSHA-Occupational Safety and Health Administration  
RCRA-Resource Conservation and Recovery Act  
RQ-Reportable Quantity  
SARA-Superfund Amendments and Reauthorization Act



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STOST-SE-Specific Target Organ Toxicity Single Exposure  
TPQ-Threshold Planning Quantity  
TSCA-Toxic Substance Control Act  
U.N.-United Nation  
UNCED-United Nations Conference on Environment and Development  
VOL-Volume  
WT-Weight