

# Safety Data Sheet

## Section 1: Identification

### Product identifier

**Product Name**                      **Distiller's Corn Oil**

Synonyms                              Corn Oil, N.F.

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s)              Animal nutrition, biodiesel, feed-stock

### Details of the supplier of the safety data sheet

Manufacturer                              *Cardinal Ethanol*  
    *1554 N 600E*  
    *Union City, Indiana 47390*

Telephone (General)                      *765-964-3137*

### Emergency telephone number

Manufacturer                              765-964-3137

## Section 2: Hazards Identification

### Classification of the substance or mixture

Skin Mild Irritation 3 - H316  
Causes Eye irritation 3 – H320  
Hazardous to the aquatic environment Acute 3 - H402  
Hazardous to the aquatic environment Chronic 3 - H413

### Label elements

#### Warning

### Hazard statements

H316 - Causes skin mild irritation.  
H320 - Causes eye irritation.  
H402 - Harmful to aquatic life.  
H412 - May cause long lasting harmful effects to aquatic life

### Precautionary statements

### Prevention

P264 - Wash thoroughly after handling.  
P273 - Avoid release to the environment.

## Response

P332+P313 – If skin irritation occurs: Get medical advice/attention.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention. P321 - Specific treatment, see supplemental first aid information. P308+P313 - IF exposed or concerned: Get medical advice/attention.

## Storage/Disposal

P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Other hazards

According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous.

## Section 3 - Composition/Information on Ingredients

### Substances

Hazardous Components					
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Corn Oil	CAS: 8001-30-7 EINECS: 232-381-2	100%	Ingestion/Oral-Rat LD50 • >100 mL/kg	UN GHS: Skin Irrit 3	NDA

### Mixtures

Material does not meet the criteria of a mixture according to United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

## Section 4 - First Aid Measures

### Description of first aid measures

**Inhalation** IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Skin** IF ON SKIN: Wash with plenty of soap and water.

**Eye** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Ingestion** First aid is not expected to be necessary if material is used under ordinary conditions and as recommended.

Most important symptoms/effects

Refer to Section 11 – Toxicological information

Indication of any immediate medical attention and special treatment needed

Notes to Physician - Immediate medical attention after exposure to this material not expected to be necessary. No special treatment indicated related to exposure to this material.

## **Section 5 - Firefighting Measures**

### **Extinguishing media**

#### **Suitable Extinguishing Media**

Dry chemical powder, water spray, fog or foam.

#### **Unsuitable Extinguishing Media**

Do not use a solid water stream (Jet) as it may scatter and spread fire.

#### **Unusual Fire and Explosion Hazards**

Corn oil mist is combustible.

#### **Hazardous Combustion Products**

Carbon dioxide and possibly carbon monoxide.

#### **Advice for firefighters**

Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

## **Section 6 - Accidental Release Measures**

### **Personal precautions, protective equipment and emergency procedures**

#### **Personal Precautions**

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Spilled corn oil is very slippery. Avoid walking through spilled material and promptly clean up any spills.

#### **Emergency Procedures**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. Stay upwind. Keep unauthorized personnel away.

## Environmental precautions

No special environmental precautions necessary. Avoid run off to waterways and sewers.

## Methods and material for containment and cleaning up

### Containment/Clean-up Measures

Stop leak if you can do it without risk.

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Wash spill area with detergent and water.

## Section 7 - Handling and Storage

### Precautions for safe handling

Keep away from heat and ignition sources – No Smoking. Use good safety and industrial hygiene practices. Promptly clean up any spilled material. Do not use in areas without adequate ventilation. Avoid release to the environment.

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry place. Keep away from heat and sources of ignition. Keep out of the reach of children.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

No special control parameters identified.

### Exposure controls

#### Engineering Measures/Controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Personal Protective Equipment

#### Pictograms



#### Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment.

#### Eye/Face

Wear protective eyewear (goggles, face shield, or safety glasses).

#### Hands

Wear appropriate gloves.

#### Skin/Body

Wear protective clothing.

#### General Industrial Hygiene Considerations

Do not get in eyes or on skin or clothing. Handle in accordance with good industrial hygiene and safety practice.

#### Environmental Exposure Controls

Follow best practice for site management and disposal of waste.

#### Key to abbreviations

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

TWA = Time-weighted Averages are based on 8h/day, 40h/week exposures

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

## Section 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Yellow, or reddish-yellow liquid with slight corn odor.
Color	Yellow, or reddish-yellow	Odor	Slight corn.
Taste	No data available	Particulate Type	No data available
Particulate Size	No data available	Aerosol Type	No data available
Odor Threshold	No data available	Physical and Chemical Properties	No data available
General Properties			
Boiling Point	No data available	Melting Point	-14 C(6.8 F)
Decomposition Temperature	No data available	Heat of Decomposition	No data available
pH	No data available	Specific Gravity/Relative Density	0.918 Water=1
Density	No data available	Bulk Density	No data available
Water Solubility	Negligible	Solvent Solubility	No data available
Viscosity	No data available	Explosive Properties	No data available
Oxidizing Properties	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	No data available
VOC (Vol.)	No data available	Volatiles (Wt.)	No data available
Volatiles (Vol.)	No data available		
Flammability			
Flash Point	254 C(489.2 F)	Flash Point Test Type	No data available
UEL	No data available	LEL	No data available
Autoignition	No data available	Self-Accelerating Decomposition temperature (SADT)	No data available
Heat of Combustion ( $\Delta H_c$ )	No data available	Burning Time	No data available
Flame Duration	No data available	Flame Height	No data available

Flame Extension	No data available	Ignition Distance	No data available
Flammability (solid, gas)	No data available		
<b>Environmental</b>			
HalfLife	No data available	Octanol/Water Partition coefficient	No data available
Coefficient of water/oil distribution	No data available	Bioaccumulation Factor	No data available
Bioconcentration Factor	No data available	Biochemical Oxygen Demand BOD/BOD5	No data available
Chemical Oxygen Demand	No data available	Persistence	No data available
Degradation	No data available		

## Other Information

No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### Reactivity

No dangerous reaction known under conditions of normal use.

### Chemical stability

Stable

### Possibility of hazardous reactions

Hazardous polymerization will not occur.

### Conditions to avoid

Heat, sparks, open flame.

### Incompatible materials

Avoid contact with oxidizers.

### Hazardous decomposition products

Not applicable.

## Section 11 - Toxicological Information

### Information on toxicological effects

Component Name	CAS	Data
Corn Oil (100%)	8001-30-7	Acute Toxicity: orl-rat LD50:>100 mL/kg; orl-rat TDLo:18.36 mg/kg/4D-I; Irritation: skn-hmn 300 mg/3D-I MLD; Reproductive: orl-rat TDLo:390 mL/kg (2W pre-3D post); Tumorigen/Carcinogen: orl-rat TDLo:2600 mL/kg/2Y-I

GHS Properties	Classification
Acute toxicity	UN GHS • Classification criteria not met

Skin corrosion/Irritation	UN GHS • Skin Mild Irritation 3
Serious eye damage/Irritation	UN GHS • Classification criteria not met
Skin sensitization	UN GHS • Classification criteria not met
Respiratory sensitization	UN GHS • Classification criteria not met
Aspiration Hazard	UN GHS • Classification criteria not met
Carcinogenicity	UN GHS • Classification criteria not met
Germ Cell Mutagenicity	UN GHS • Classification criteria not met
Toxicity for Reproduction	UN GHS • Classification criteria not met
STOT-SE	UN GHS • Classification criteria not met
STOT-RE	UN GHS • Classification criteria not met

## Potential Health Effects

### Inhalation

Acute (Immediate) Under normal conditions of use, no health effects are expected.  
Chronic (Delayed) No information on adverse effects in humans found.

### Skin

Acute (Immediate) Causes mild skin irritation.  
Chronic (Delayed) No information on adverse effects in humans found.

### Eye

Acute (Immediate) Under normal conditions of use, no health effects are expected. May causes mild eye irritation.  
Chronic (Delayed) No information on adverse effects in humans found.

### Ingestion

Acute (Immediate) Ingestion of large amounts of corn has been shown to have laxative effects.  
Chronic (Delayed) No information on adverse effects in humans found.

## Section 12 - Ecological Information

### Toxicity

Material data lacking.

### Persistence and degradability

Material data lacking.

### Bioaccumulative potential

Material data lacking.

### Mobility in Soil

Material data lacking.

## Results of PBT and vPvB assessment

Material data lacking.

## Other adverse effects

Material data lacking.

## Section 13 - Disposal Considerations

### Waste treatment methods

#### Product waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

#### Packaging waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

Special precautions for user

None known.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

## Section 15 - Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

State Right To Know				
Component	CAS	MA	NJ	PA
Corn Oil	8001-30-7	No	No	Yes

Inventory				
Component	CAS	Canada DSL	Canada NDSL	TSCA
Corn Oil	8001-30-7	Yes	No	Yes



## **Canada Labor**

### **Canada - WHMIS - Classifications of Substances**

Corn Oil	8001-30-7	Uncontrolled product according to WHMIS classification criteria
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### **Canada – WHMIS – Ingredient Disclosure List**

Corn Oil	8001-30-7	Not Listed
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## **Environment**

### **Canada CEPA – Priority Substances List**

Corn Oil	8001-30-7	Not Listed
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## **Mexico**

### **Other**

#### **Mexico – Hazard Classifications**

Corn Oil	8001-30-7	Not Listed
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#### **Mexico – Regulated substances**

Corn Oil	8001-30-7	Not Listed
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## **United States**

### **Labor**

#### **U.S. – OSHA – Process Safety Management – Highly Hazardous Chemicals**

Corn Oil	8001-30-7	Not Listed
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#### **U.S. – OSHA – Specifically Regulated Chemicals**

Corn Oil	8001-30-7	Not Listed
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## **Environment**

#### **U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

Corn Oil	8001-30-7	Not Listed
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#### **U.S. - CERCLA/ SARA - Hazardous Substances and their Reportable Quantities**

Corn Oil	8001-30-7	Not Listed
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#### **U.S. - CERCLA/ SARA - Radionuclides and Their Reportable Quantities**

Corn Oil	8001-30-7	Not Listed
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#### **U.S. - CERCLA/ SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

Corn Oil	8001-30-7	Not Listed
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#### **U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

Corn Oil	8001-30-7	Not Listed
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#### **U.S. - CERCLA/ SARA - Section 313 Emission Reporting**

Corn Oil	8001-30-7	Not Listed
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#### **U.S. - CERCLA/ SARA - Section 313 PBT Chemical Listing**

Corn Oil	8001-30-7	Not Listed
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## **United States – California Environment**

#### **U.S. - California - Proposition 65 Carcinogens List**

Corn Oil	8001-30-7	Not Listed
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#### **U.S. - California - Proposition 65 Developmental Toxicity**

Corn Oil 8001-30-7 Not Listed

**U.S. - California – Proposition 65 Maximum Allowable Dose Levels (MADL)**

Corn Oil 8001-30-7 Not Listed

**U.S. – California - Proposition 65 No Significant Risk Levels (NSRL)**

Corn Oil 8001-30-7 Not Listed

**U.S. – California – Proposition 65 Reproductive Toxicity Female**

Corn Oil 8001-30-7 Not Listed

**U.S. – California – Proposition 65 Reproductive Toxicity Male**

Corn Oil 8001-30-7 Not Listed

**United States – Pennsylvania  
Labor**

**U.S. – Pennsylvania – RTK (Right to Know) Environmental Hazard List**

Corn Oil 8001-30-7 Not Listed

**U.S. – Pennsylvania – RTK (Right to Know) Special Hazardous Substances**

Corn Oil 8001-30-7 Not Listed

**United States - Rhode Island  
Labor**

Corn Oil 8001-30-7 Flammable

**Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out.

**Section 16 - Other Information**

**Last Revision Date**

15/December/2015

**Preparation Date**

15/December/2015

**Disclaimer/Statement of Liability**

The information contained herein is believed to be accurate. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

**Key to abbreviations**

NDA = No Data Available