# **Material Safety Data Sheet**



NFPA WHMIS Personal Protective Equipment Transport Symbol

Preparation Date: 16-Sep-2009 Revision Date: 12-Apr-2012 Revision Number: 1

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Product Code: Clintose® Dextrose A 015810

Synonyms:

Dextrose A, Glucose, Dextrose Monohydrate

Zowiece ri, Glacece, Zowiece menenyalate

Contact Manufacturer:

Archer Daniels Midland Company 4666 Faries Parkway Decatur, IL 62526, USA

Telephone Number: (+1) 217-424-5200

Use of the Substance / Preparation:

Food additive.

#### 2. HAZARDS IDENTIFICATION

# **Emergency Overview**

Product dust may be irritating to eyes, skin and respiratory system. Fine dust dispersed in air may ignite.

AppearancePhysical StateOdorWhitePowderOdorless

#### **Potential Health Effects**

Principle Routes of Exposure Inhalation. Eye contact. Skin contact. Ingestion.

**Acute Effects** 

EyesContact with eyes may cause mechanical irritation.SkinProduct dust may cause mild, mechanical irritation.InhalationDust may cause irritation of respiratory tract.

**Ingestion** Health injuries are not known or expected under normal use.

Chronic Effects None known.

Aggravated Medical Conditions Skin disorders. Respiratory disorders.

**Potential Environmental Effects**See Section 12 for additional ecological information. **Toxicological information**See Section 11 for additional toxicological information.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Common NameDextroseChemical FamilyCarbohydrate

**Non-hazardous Components** 

Chemical Name	CAS-No	Weight %	North American Hazard Indicator		
Glucose	50-99-7	91.5	-		
Water	7732-18-5	8.5	-		

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# 4. FIRST AID MEASURES

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

**Skin Contact** Wash off with warm water and soap.

Inhalation Move to fresh air.

Clean mouth with water and afterwards drink plenty of water. Ingestion

Treat symptomatically. Notes to Physician

# 5. FIRE-FIGHTING MEASURES

Flammable Properties Fine dust dispersed in air may ignite. Risks of ignition followed by flame propagation or

Carbon monoxide (CO), Carbon dioxide (CO2).

secondary explosions should be prevented by avoiding accumulation of dust, e.g. on floors

and ledges.

Use extinguishing measures that are appropriate to local circumstances and the Suitable Extinguishing Media

surrounding environment. Water. Dry chemical. Carbon dioxide (CO2)

**Unsuitable Extinguishing Media Hazardous Combustion Products** 

**Explosion Data** 

Sensitivity to mechanical impact

Sensitivity to static discharge

Specific Hazards Arising from the

Chemical

No information available. Yes (as dust).

None known.

None known.

**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 1

Stability and Reactivity 0 Physical hazard -



# 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions Environmental Precautions Methods for Clean-up** 

Avoid dust formation. Use personal protective equipment.

Local authorities should be advised if significant spillages cannot be contained.

Shovel or sweep up.

#### 7. HANDLING AND STORAGE

Avoid dust formation in confined areas. Fine dust dispersed in air may ignite. Refer to Handling

NFPA 61, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and

Food Processing Facilities". Ensure adequate ventilation.

Storage Keep in a dry, cool and well-ventilated place.

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Exposure Limits**

Chemical Name	ACGIH TLV	OSHA PEL	MEXICO	NIOSH	OHSA
Particulates not otherwise regulated	TWA: 10 mg/m³ inhalable particles, recommended TWA: 3 mg/m³ respirable particles, recommended	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction	not listed	not listed	TWA: 10 mg/m³ inhalable particulate TWA: 3 mg/m³ respirable particulate

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Apply technical measures to

comply with the occupational exposure limits. However it is the duty of the user to verify this

and follow given exposure limits at the workplace.

General Hygiene Considerations Personal Protective Equipment Eye/face Protection. Handle in accordance with good industrial hygiene and safety practice.

Safety glasses with side-shields. If airborne dust concentrations are excessive, wear

goggles.

Skin and Body Protection Respiratory Protection

Long sleeved clothing.

In case of insufficient ventilation wear suitable respiratory equipment.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance White Physical State Powder Odor Odorless

Odor Threshold No information available pH No information available

Flash Point Not applicable

Autoignition Temperature No information available

Boiling point Melting/Freezing Point

Decomposition temperature
Oxidizing Properties

83 °C / 181 °F No information available No information available

Not applicable

Specific Gravity No information available

Water Solubility
Evaporation Rate
Vapor Pressure
Vapor Density
Soluble
Not applicable
Not applicable
Not applicable

Partition Coefficient (n-octanol/water)

No information available

# 10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

**Conditions to Avoid** Avoid dust formation.

Incompatible Materials No materials to be especially mentioned.

Hazardous Decomposition Products None known.

Possibility of Hazardous Reactions None under normal processing.

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# 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

LD50 Oral: No information available LD50 Dermal: No information available LC50 Inhalation: No information available

# Toxicology data for the components

**Chronic Effects** Carcinogenicity

There are no known carcinogenic chemicals in this product.

**OSHA: (Occupational Safety & Health Administration)** 

Not Listed

ACGIH: (American Conference of Governmental Industrial Hygienists)

Not Listed.

NTP: (National Toxicity Program)

Not Listed

Mexico: (Official Mexican Norm NOM-010-STPS-1999)

Not Listed.

IARC: (International Agency for Research on Cancer)

Not Listed

Irritation Corrosivity No known or anticipated corrosive properties.

Not expected to produce serious eye or skin

irritation.

Sensitization

**Neurological Effects** 

Not expected to be a skin or respiratory sensitizer.

**Mutagenic Effects** 

No known or anticipated mutagenic effects

**Developmental Effects** 

No known or anticipated developmental effects

**Target Organ Effects** 

Respiratory system Eyes Skin

No known or anticipated neurological effects

Reproductive Effects

No known or anticipated reproductive effects.

**Teratogenicity** 

No known or anticipated teratogenic effects

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

#### **Ecotoxicity effects**

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

Persistence/Degradability **Bioaccumulation/ Accumulation** 

Not applicable.

**Mobility** 

Soluble in water.

Readily biodegradable.

# 13. DISPOSAL CONSIDERATIONS

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

**Waste Disposal Methods** Dispose of in compliance with the laws and regulations pertaining to this product in your

jurisdiction.

**Contaminated Packaging** Empty containers should be decontaminated and taken for local recycling, recovery or

waste disposal.

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# 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**

The components of this product are reported in the following inventories:

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	AICS	ENCS ISHL	CHINA	PICCS	KECL	NZLoC
Glucose	Yes	Yes	No	Yes 200-075-1	No	Yes	Yes (8)-46	Yes	Yes	Yes KE-17727	Yes
Water	Yes	Yes	No	Yes 231-791-2	No	Yes	No	Yes	Yes	Yes KE-35400	Yes

TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA). DSL - Domestic Substance List (Canada). NDSL - Non Domestic Substances List (Canada). EINECS - European Inventory of Existing Commercial Chemical Substances (EU). ELINCS -European List of Notified Chemical Substances (EU). AICS - Australian Inventory of Chemical Substances (Australia). ENCS -Existing and New Chemical Substances (Japan). ISHL - Industrial Health and Safety Law (Japan). CHINA - Chinese Inventory of Existing Chemical Substances (China). PICCS - Inventory of Chemicals and Chemical Substances (Philippines). KECL - Korean Existing and Evaluated Chemical Substances (Korea). NZLoC - New Zealand Inventory of Chemicals (New Zealand).

# **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.

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.

Section 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 302.

#### SARA 311/312 Hazardous Categorization

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

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product is not known to contain any HAPS.

# **State Regulations**

#### **California Proposition 65**

Proposition 65 chemicals are not expected to be found in this product above those naturally present in their agricultural source. Proposition 65 exempts naturally occurring listed chemicals from an obligation to label.

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#### State Right-to-Know

No known components subject to "Right-To-Know" legislation in the following States: Massachusetts. Minnesota. New Jersey. Pennsylvania.

# Canada

#### **WHMIS Product Classification**

Exempt: Food Product per Hazardous Products Act Part II Controlled Products Section 12.

#### WHMIS Ingredient Disclosure List IDL

No known component is listed on the WHMIS ingredients disclosure list.

# (NPRI) Canadian National Pollutant Release Inventory

No known component is listed on NPRI.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

#### Mexico

Mexico - Grade No information available.

#### 16. OTHER INFORMATION

Prepared By: ADM Corn Processing

Preparation Date: 16-Sep-2009 Revision Date: 12-Apr-2012

Revision Number:

**Revision Summary** (M)SDS sections updated. This data sheet contains changes from the previous version in

section(s) 2, 8, 11. This version replaces all previous versions.

The information provided on this (M)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.

End of (M)SDS

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