



Safety Data Sheet

***** Section 1 - Product and Company Identification *****

Material Name: CMS, Condensed Molasses Solids

Product Use: Animal Feed

Manufacturer Information

Michigan Sugar Company
2600 S. Euclid Ave.
Bay City, MI 48706

Phone: 989-686-0161

***** Section 2 - Hazards Identification *****

GHS Classification:

Not classified according to GHS.

GHS LABEL ELEMENTS

Symbol(s)

None

Signal Word

None

Hazard Statements

None

Precautionary Statements

None

***** Section 3 - Composition / Information on Ingredients *****

CAS #	Component	Percent
Not Available	Salts and other organic compounds	45
7732-18-5	Water	40
57-50-1	Sucrose	14.9
107-43-7	Methanaminium, 1-carboxy-N,N,N-trimethyl-, inner salt	0.1

***** Section 4 - First Aid Measures *****

First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

First Aid: Skin

Wash skin with soap and water.

Safety Data Sheet

Material Name: CMS, Condensed Molasses Solids

First Aid: Ingestion

DO NOT INDUCE VOMITING. If vomiting occurs, lower the person's head below their knees to avoid aspiration. Contact physician or poison control center.

First Aid: Inhalation

No special first aid needed.

* * * Section 5 - Fire Fighting Measures * * *

General Fire Hazards

See Section 9 for Flammability Properties.
None

Hazardous Combustion Products

Combustion may produce CO₂.

Extinguishing Media

Dry Chemical, Carbon Dioxide, Water, foam.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

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

Recovery and Neutralization

Stop the flow of material, if this is without risk.

Materials and Methods for Clean-Up

Pick up large spills or absorb on inert material. Collect in sealed approved container for disposal. Flush area with water to clean up small amounts and reduce possible slippery floor hazard.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Wear appropriate personal protective equipment to minimize exposure during clean up.

Environmental Precautions

None

Prevention of Secondary Hazards

None

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Avoid eye and skin contact. Do not take internally. Wash thoroughly after handling.

Storage Procedures

Store at ambient indoor conditions. Keep containers sealed.

Incompatibilities

None known.

Safety Data Sheet

Material Name: CMS, Condensed Molasses Solids

*** Section 8 - Exposure Controls / Personal Protection ***

Component Exposure Limits

Sucrose (57-50-1)

ACGIH: 10 mg/m3 TWA

OSHA: 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

NIOSH: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)

Engineering Measures

None needed under normal product handling conditions.

Personal Protective Equipment: Respiratory

None needed under normal product handling conditions.

Personal Protective Equipment: Hands

None needed under normal product handling conditions.

Personal Protective Equipment: Eyes

None needed under normal product handling conditions.

Personal Protective Equipment: Skin and Body

None needed under normal product handling conditions.

*** Section 9 - Physical & Chemical Properties ***

Appearance: Dark Brown to Black

Physical State: Liquid

Vapor Pressure: ND

Boiling Point: ND

Solubility (H2O): approx. 160g/100ml

Evaporation Rate: ND

Octanol/H2O Coeff.: ND

Flash Point Method: ND

Lower Flammability Limit ND

(LFL):

Auto Ignition: ND

Odor: Characteristic

pH: 5-7

Vapor Density: ND

Melting Point: 573.8°F

Specific Gravity: ND

VOC: ND

Flash Point: ND

Upper Flammability Limit ND

(UFL):

Burning Rate: ND

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

None

Incompatible Products

None known.

Hazardous Decomposition Products

Combustion may produce CO2.

Safety Data Sheet

Material Name: CMS, Condensed Molasses Solids

* * * Section 11 - Toxicological Information * * *

Acute Toxicity

Component Analysis - LD50/LC50

Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

Sucrose (57-50-1)

Oral LD50 Rat 29700 mg/kg

Methanaminium, 1-carboxy-N,N,N-trimethyl-, inner salt (107-43-7)

Oral LD50 Rat 11179 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

This product is not reported to have any skin irritation effects.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

This product is not reported to have any eye irritation effects.

Potential Health Effects: Ingestion

This product is not reported to have any ingestion effects.

Potential Health Effects: Inhalation

This product is not reported to have any inhalation effects.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity

A: General Product Information

This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity

Sucrose (57-50-1)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any single exposure specific target organ toxicity effects.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any repeat exposure specific target organ toxicity effects.

Aspiration Respiratory Organs Hazard

Not an aspiration hazard.

Safety Data Sheet

Material Name: CMS, Condensed Molasses Solids

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

This product is not reported to have any ecotoxicity effects.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

*** Section 13 - Disposal Considerations ***

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

*** Section 14 - Transportation Information ***

DOT/TDG Information

Shipping Name: Not Regulated.

*** Section 15 - Regulatory Information ***

Regulatory Information

US Federal Regulations

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Sucrose	57-50-1	No	Yes	Yes	No	Yes	No

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

Component Analysis - Inventory

Safety Data Sheet

Material Name: CMS, Condensed Molasses Solids

Component	CAS #	TSCA	CAN	EEC
Water	7732-18-5	Yes	DSL	EINECS
Sucrose	57-50-1	Yes	DSL	EINECS
Methanaminium, 1-carboxy-N,N,N-trimethyl-, inner salt	107-43-7	Yes	DSL	EINECS

*** Section 16 - Other Information ***

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

Literature References

Available on request.

End of Sheet