

**SAFETY DATA SHEET
Beet Molasses**

Effective: 11/20/15

Revised: 11/20/15

The information below 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 with respect to such information, and assume no liability resulting from its use.

SECTION 1-PRODUCT IDENTIFICATION

1.1 Product Identifiers

Product Name: Beet Molasses
CAS No. NA

1.2 Relevant Uses

Identified Uses: feed enhancer

1.3 Details of the supplier of the Safety Data Sheet

Manufacture Identification: Southern Minnesota Beet Sugar Cooperative
83550 County Road 21
Renville, MN 56284
Telephone: 320-329-8305
Fax: 320-329-3311

1.4 Emergency Telephone Number:

Emergency phone #: 320-329-8305

SECTION 2- HAZARDS IDENTIFICATION

2.1 Hazard Classifications

Not a hazardous substance or mixture

2.2 Precautionary Statements

Not a hazardous substance or mixture

2.3 Description of any hazards not Classified- none

SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms: Beet Molasses, Molasses
Component: Sucrose, Betaine, Glucose, fructose, raffinose and water.
Formula: NA
Molecular Weight: NA
CAS-NA

Hazardous components

Component	Classification	Concentration
NA		-

Exposure Limits: PEL = NA
LD₅₀ = NA

Component

Component	CAS Number	Typical Composition
Sucrose	0057-50-1	60-66
Betaine	107-43-7	2.5-3
Glucose	50-99-7	0.4-0.5
Fructose	57-48-7	0.4-0.5
Raffinose	17629-30-0	2.3-2.5
Water	7732-18-5	19-22

Melting Point: NA, liquid

Bulk Density: 11.83-11.85 lb/gal. @ 20C

SECTION 4– FIRST AIDS MEASURES

4.1 Emergency and First Aid Procedures:

Ingestion:

Do not give anything to an unconscious person. Rinse mouth with water

Inhalation:

NA

Eye Contact:

Flush eyes with water for 15minutes as a precaution

Skin Contact:

Wash affected area with soap and water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling and/or section 11

4.3 Indication of any immediate medical attention and special treatment needed:

No Data Available

SECTION 5- FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Special Hazards arising from the substance or mixture

Nature of decomposition products not known

5.3 Advice for Firefighter

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further Information

No data available

SECTION 6- ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and clean up

Contain spill with dike or absorbent socks, apply drying agent or liquid absorber and shovel. Keep in suitable, closed containers for disposal

6.4 Reference to other sections

For disposal see section 13.

SECTION 7-HANDLING AND STORAGE

7.1 Precautions for safe handling

Normal measures for preventative fire protection. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep cool dry container.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8-EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters.

Component	CAS-No.	Value	Control Parameters	Basis
Sucrose	57-50-1	TWA	10 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Dental erosion Not Classified as a human carcinogen		
		TWA	15 mg/m ³	USA. Occupational Exposure Limits (OSHA)- Table z-1 Limits for Air Contaminants
		TWA	5 mg/m ³	USA. Occupational Exposure Limits (OSHA)- Table z-1 Limits for Air Contaminants
		TWA	5 mg/m ³	USA NIOSH Recommended Exposure Limits
		TWA	10 mg/m ³	USA NIOSH Recommended Exposure Limits

8.2 Exposure Controls

Appropriate Engineering controls

General industrial hygiene practice

Personal Protective Equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

Skin protection

Not normally considered a skin hazard. Where skin can come into contact with molasses, practice good personal hygiene. Wash hands and other exposed area with mild soap and water before eating, drinking and when leaving work

Gloves

Use clean gloves without tears or loose material.

SECTION 9-PHYSICAL DATA

Molecular formula: NA

Molecular Weight: NA

Appearance: Dark brown liquid

Odor: Earthy

Odor Threshold: No data available

pH: 11pH

Auto ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: 11785 centipoise @ 20C

Vapor Pressure: No data available

Evaporation Rate: No data available

Vapor Density: No data available

Density: 1.42@ 20 C

Solubility in Water: Very Soluble

Melting Point: NA

Boiling Point: approx. water.

Flash Point: No data available

SECTION 10- REACTIVITY DATA

10.1 Reactivity:

Not generally reactive

10.2 Chemical stability:

stable at room temperature

10.3 Conditions to avoid

NA

10.4 Incompatible Materials:

Strong Acids and strong oxidizing agents

10.5 Hazardous Decomposition Products

Carbon Dioxides

10.6 Hazardous Polymerization

Will not occur

SECTION 11-TOXICITY DATA

11.1 Routes of Exposure- Ingestion, eye or skin contact

11.2 Symptoms- No data available for either acute

11.3 Acute Toxicity

Chemical Name	CAS Number	Oral LD50	Dermal LD 50	Inhalation LC 50
Sucrose	57-50-1	Rat 29.7g/kg	NA	NA

11.4 Carcinogenicity

No data available for sucrose

SECTION 12- ECOLOGICAL DATA

12.1 Overview

This material is not expected to be harmful to the ecology

12.2 Mobility

This material has a low mobility in soil. It does absorb over time into most soil

12.3 Persistence

Biodegradable, dissolves in water

12.4 Bioaccumulation

No Data

12.5 Degradability

Biodegrades quickly

12.6 Other Adverse Effects

No Data

SECTION 13-DISPOSAL INFORMATION

13.1 Disposal Methods

Dispose in accordance with all Federal, States and Local Regulations. Always contact a permitted waste disposer to assure compliance.

13.2 Waste Disposal Code(s)

Not Determined

SECTION 14-TRANSPORTATION INFORMATION

14.1 Ground-DOT Proper Shipping Name

Not regulated for transport by US DOT

14.2 Air- IATA Proper Shipping Name

Not regulated for air transport by IATA

SECTION 15- REGULATORY INFORMATION

15.1 TSCA Status

All components in this product are on the TSCA Inventory

15.2 Regulations

Sucrose- 57-50-1 (CAS #)

313 Name: No **304 RQ:** No **CERCLA RQ:** No

302 TPQ: No **CAA 112(2):** No

SECTION 16- ADDITIONAL INFORMATION

16.1 Revised: November 20, 2015

16.2 Replaces: December 6, 2013

16.3 Created: June 10, 2003