

### SECTION 1 : Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product form	: Substance
Trade name	: Foremost® Lactose Monohydrate, NF
Chemical name	: Lactose Monohydrate
CAS No.	: 64044-51-5
Product code	: WL10400310; WL10400314; WL10400315; WL10404316; WL10405312; WL10405316; WL10406310; WL10406312; WL10406313; WL10406315; WL10406316; WL10407310; WL10407312; WL10407315; WL10407316; WL10408312; WL10408313; WL10408316; WL10409314; WL10411310; WL10412310; WL10413310; WL10414310; WL10415310; WL10419315
Formula	: C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> ·H <sub>2</sub> O
Synonyms	: Milk Sugar
Product group	: Trade product
Other means of identification	: Foremost® NF Fast Flo® Lactose

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

##### 1.2.1. Relevant identified uses

Use of the substance/preparation : Excipient material used in pharmaceutical applications

##### 1.2.2. Uses advised against

No additional information available

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

Foremost Farms USA  
E10889 Penny Lane  
Baraboo, WI 53913-8115

1-800-362-9196 (USA) 8:00 AM – 5:00 PM CST

For more information contact:

[Justin.Pope@ForemostFarms.com](mailto:Justin.Pope@ForemostFarms.com)

[www.foremostfarms.com](http://www.foremostfarms.com)

#### 1.4. Emergency telephone number

Emergency Number : 715-359-0534 (USA)

Access codes apply when calling outside the US

### SECTION 2 Classification of the substance or mixture

#### 2.1 Classification of the substance or mixture

Classification (GHS-US/WHMIS) : Combustible Dust

Substance not classified according to Regulation (EC) No. 1272/2008 [CLP]

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### 2.2. Label elements

Hazard pictograms (GHS-US/WHMIS)	:	None
Signal word (GHS-US/WHMIS)	:	Warning
Hazard statements (GHS-US/WHMIS)	:	May form combustible dust concentrations in air
Precautionary statements (GHS-US/WHMIS)	:	None

### 2.3. Other hazards

According to EU Directives/Regulations	:	May form explosible dust-air mixture if dispersed
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## SECTION 3 : Composition/information on ingredients

### 3.1. Substances

Substance type	:	Mono-constituent
Name	:	Foremost <sup>®</sup> Lactose Monohydrate, NF
CAS No.	:	64044-51-5
EC no	:	Not applicable
EC index no	:	Not applicable

<b>Name:</b> Lactose, monohydrate	<b>Product identifier (CAS No.):</b> 64044-51-5	100% <b>by Wt.</b>
<b>GHS-US/WHMIS Classification:</b> Combustible Dust		
<b>Classification according to Regulation (EC) No. 1272/2008 [CLP]:</b> Not Classified		

### 3.2. Mixtures

Non applicable

## SECTION 4 : First aid measures

### 4.1. Description of first aid measures

First-aid measures general	:	If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	:	If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Obtain medical attention if breathing difficulty persists.
First-aid measures after skin contact	:	Rinse with plenty of water.
First-aid measures after eye contact	:	Rinse with water while holding eyelids open. If eye irritation persists: Get medical advice and attention.
First-aid measures after ingestion	:	Does not induce vomiting. Seek medical attention if a large amount is swallowed.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	:	Prolonged contact with large amounts of dust may cause mechanical irritation.
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Symptoms/injuries after inhalation	:	None under normal use. Overexposure may be irritating to the respiratory system.
Symptoms/injuries skin contact	:	None under normal use. Prolonged contact with a large amount of dust may cause mechanical irritation.
Symptoms/injuries eye contact	:	None under normal use. Prolonged contact with large amounts of dust may cause mechanical irritation.
Symptoms/injuries ingestion	:	None under normal use.
Chronic symptoms	:	Prolonged inhalation of dust may cause respiration irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5 : Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	:	Not considered flammable but will burn at high temperatures. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	:	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	:	Combustible Dust. Dust explosion hazard in air.
Explosion hazard	:	Dust clouds can be explosive. Avoid dust clouds in combination with static electricity.
Reactivity	:	Stable at ambient temperature and under normal conditions of use.

### 5.3. Advice for firefighters

Firefighting instructions	:	Do not breathe fumes from fires or vapors from decomposition.
Protection during firefighting	:	Use normal individual fire protective equipment.

## SECTION 6 : Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	Handle in accordance with good industrial hygiene and safety practice. Good housekeeping is needed during storage, transfer, handling, and use of this material to avoid excessive dust accumulation.
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#### 6.1.1. For non-emergency personnel

Protective equipment	:	Not required for normal conditions of use
Emergency procedures	:	Collect as any solid. Ventilate area.

#### 6.1.2. For emergency responders

Protective equipment	:	Not applicable
Emergency procedures	:	If possible, stop flow of product. Contain and collect as any solid. Ventilate area.

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### 6.2. Environmental precautions

No additional information available

### 6.3. Methods and material for containment and cleaning up

- For containment : Contain and collect as any solid.
- Methods for cleaning up : Avoid generation of dust during clean-up of spills.

### 6.4. Reference to other sections

No additional information available

## SECTION 7 : Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures. Good housekeeping is needed during storage, transfer, handling, and use of this material to avoid excessive dust accumulation. Take precautionary measures against static discharge.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Protect from moisture. Store in a dry, cool place. Keep container tightly closed.

### 7.3. Specific end use(s)


No additional information available

## SECTION 8 : Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

- Appropriate engineering controls : Avoid dust production. Ensure adequate ventilation, especially in confined areas. Take precautionary measures against static discharges.
- Personal protective equipment : Safety glasses 
- Eye protection : Safety glasses
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Not required for normal conditions of use. In case of inadequate ventilation wear respiratory protection.
- Environmental exposure controls : Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
- Consumer exposure controls : Wear recommended personal protective equipment.

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### SECTION 9 : Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder
Color	: White
Odor	: Slight
Odor threshold	: No data available
pH	: Slight acidic
Concentration of pH solution	: 10 %
Relative evaporation rate (butyl acetate=1)	: Not applicable
Melting point	: 202 °C (396 °F)
Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: No data available
Self ignition temperature	: 360 - 470 °C (680 °F – 878 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Upper/Lower flammable limits	: No data available
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: Not applicable
Relative density	: Not applicable
Solubility	: Soluble. Water: 21.6g/100ml at 25 °C (77 °F)
Log Pow	: No data available
Log Kow	: No data available
Viscosity , kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: See range below.
Oxidizing properties	: None known.
Explosive limits	: 30 – 125 g/m <sup>3</sup>

#### 9.2. Other Information

No additional information available

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### SECTION 10 : Stability and reactivity

#### 10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

#### 10.2. Chemical stability

Stable at standard temperature and pressure

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Use good housekeeping practices during storage, transfer, and handling to avoid excessive dust accumulation.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under conditions of fire this material may produce: Carbon dioxide; Carbon monoxide

### SECTION 11 : Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	:	Not classified
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeating exposure)	:	Not classified
Aspiration hazard	:	Not classified
Symptoms/effects both acute and chronic	:	None under normal use. Prolonged contact with large amounts of dust may cause mechanical irritation and allergy symptoms in individuals with milk allergies.

### SECTION 12 : Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

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Persistence and degradability

Product is biodegradable

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13 : Disposal considerations

#### 13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer

Waste disposal recommendations : Dispose of waste material in accordance with all local, regional, national, and international regulations.

### SECTION 14 : Transport information

In accordance with DOT/ TDG/ ADR/ RID/ ADNR/ IMDG/ ICAO/ IATA

#### 14.1. UN number

No dangerous good in sense of transport regulations.

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Additional Information

No additional information available

#### 14.4. Overland transport

No additional information available

#### 14.5. Transport by sea

No additional information available

#### 14.6. Air Transport

No additional information available

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

Not applicable

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### SECTION 15 : Regulatory information

#### 15.1 US Federal regulations

The Product is intended for human consumption and therefore is subject to substantial regulatory oversight by the United States, including but not limited to the Federal Food, Drug, and Cosmetic Act and the Food Safety Modernization Act.

#### 15.2 EU Regulations

Contains no REACH Annex XVII restrictions or REACH candidate substances

This substance is for consumption and as such, is exempt from REACH registration requirements

Chemical Safety Assessment : Not applicable

#### 15.3 National regulations

The Product is intended for human consumption and therefore is usually subject to regulatory oversight by any nation to which it is exported.

#### 15.4 US State Regulations

The Product is intended for human consumption and therefore is subject to regulatory oversight by the states, including but not limited to the Wisconsin Food Code.

### SECTION 16 : Other Information

SDS format in accordance with OSHA GHS 1910.1200

SDS format in accordance with WHMIS 2015

SDS format in accordance with Regulation (EU) No. 2015/830

#### 16.1 Summary of Last Revision

Substantial revisions made to comply with WHMIS 2015 and Regulation (EU) No. 2015/830.

*The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.*