### **Safety Data Sheet**

### **Section 1: Identification**

**Product identifier** 

Product Name • Betaine Liquid 36

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

Recommended use

• Nutritional Feed Additive (vitamin)

Details of the supplier of the safety data sheet

Manufacturer • The Amalgamated Sugar Company LLC

1951 S Saturn Way Boise, Idaho 83709

**Telephone** (General) • 208-383-6500

1-800-255-3582

**Emergency telephone number** 

Manufacturer • 208-383-6594 – Kelly Malone

### Section 2: Hazard Identification

**United States (US)** 

According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012
 Not a hazardous substance or mixture

Label elements

• Product is subject to labeling requirements of Code of Federal

Regulations. (21 CFR §501).

EyeProduct may cause irritation to eyes

Ingestion
 Product may cause irritation if ingested

Inhalation • N/A

**Skin Contact** • May cause skin irritation.

Note • SDS data pertains to the product as delivered in the original shipping

container(s). Risks of adverse effects are lessened by following all prescribed safety precautions including the use of proper personal

protective equipment.

Other • Product has no hazardous components. (29 CFR §1910.1200)

Europe

According to Regulation (EC) No. 1272/2008

### Classification of the substance or mixture

**Regulation (EC) No. 1272/2008** 

 This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008

### Label elements

Additional advice on labeling

• No label required according to Regulation (EC) No. 1272/2008 [CLP]

Other hazards

No information available

### Section 3: Composition/Information on Ingredients

### **Mixtures**

**Chemical Characterization** 

Synonyms

- Mixture related information: Betaine (97% Purity), Plant non-sucrose
- Betaine
- 1-Carboxy-N, N, N-trimethylmethan-aminiumhydroxide inner salt
- Trimethylglycine

Hazardous Components – United States									
Chemical Name	Identifiers	%(Weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments				
Betaine (min)	107-43-7	36%	NDA	OSHA HCS 2012: No classification Code of Federal Regulations.	NDA				
Plant Non- Sucroses	NDA	< 25%	NDA	OSHA HCS 2012: No classification Code of Federal Regulations.	NDA				
Water	NDA	< 45%	NDA	OSHA HCS 2012: No classification Code of Federal Regulations.	NDA				

Hazardous Components - Europe							
Chemical Name	Identifiers	REACH No	%(Weight)	Classifications According to Regulation/Directive	Comments		
Betaine	203-490-6	01-2119520508-42	25 - <50%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Full text of H and EUH		
Plant Non- Sucroses	NDA	NDA	25 - <50%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	statements: see section 16		

### **Section 4: First Aid Measures**

### **Description of first aid measures**

Eye

 Flush eyes immediately carefully and thoroughly with eye-bath or water.

 Rinse mouth immediately and drink plenty of water unless person is unconscious. Do NOT induce vomiting. Call a physician.

Inhalation

Provide fresh air.

**Skin Contact** 

 Wash skin with soap and water. Take off contaminated clothing and wash it before reuse.

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

No information available

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

Treat symptomatically

### **Section 5: Fire-Fighting Measures**

### **Extinguishing Media**

Suitable Extinguishing Media

Extinguish with water, foam powder, sand.

### Special Hazards

Flammable Properties

Non-flammable

**Hazardous Decomposition** 

 May decompose above 310° C, forming trimethyl ester, dimethlyaminoacetic acid.

Hazardous Reactivities & Incompatibilities

• Avoid hot alkaline solutions – may form trimethylamine

### **Advice for Firefighters**

Co-ordinate fire-fighting measures to the fire surroundings.

### Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** 

• Use personal protection equipment

### **Environmental precautions**

 No special environmental measures are necessary. Clean contaminated objects and areas thoroughly observing environmental regulations.

### Methods and material for containment and cleaning up

**Spill Cleanup** 

 Absorb with liquid-binding material (e.g. sand. diatomaceous earth, acid- or universal binding agents). Treat recovered material as prescribed in the section on waste disposal.

### Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### Section 7: Handling and Storage

### Precautions for safe handling

Safe Handling

Avoid direct contact with skin, eyes, and mucous membranes.

Protection against fire and explosion

No special fire protection measures are necessary.

### Conditions for safe storage, including any incompatibilities

**Storage** 

• Store at ambient temperature. Recommended storage temperature less than 30°C (86°F).

### Section 8: Exposure Controls/Personal Protection

### **Exposure Limits**

### **Control parameters**

To date, no national critical limit values exist.

### **Exposure Controls**



**Engineering Controls** 

 Provide adequate ventilation as well as local exhaustion at critical locations.

### Protective and Hygiene Measures

 Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be
worn with the CE-label including the four control digits. The quality of
the protective gloves resistant to chemicals must be chosen as a
function of the specific working place concentration and quantity of
hazardous substances. For special purposes, it is recommended to
check the resistance to chemicals of the protective gloves mentioned
above together with the supplier of these gloves

Skin protection

Body protection: not required

**Respiratory Protection** 

• In case of inadequate ventilation wear respiratory protection.

### **Section 9: Physical and Chemical Properties**

### **Material Description**

**Appearance** Light brown syrup

Physical state Liquid, slightly sticky syrup

Color Light brown

**Combustion Point** Non-combustible

**Density** 1.11 - 1.13 g/cm<sup>3</sup>

**Flammability** Not applicable

**Melting Point** Not determined

Molecular Formula C5H11NO2

**Molecular Weight** NA

Odor Characteristic

pН 7.5 - 9.5

Solubility in Water Mixable with water.

### Section 10: Stability and Reactivity

Reactivity No hazardous reaction when handled and stored according to provisions.

**Chemical stability** The product is stable under storage at normal ambient temperatures

No know hazardous reactions. **Incompatible Materials** 

**Conditions to avoid** None

**Hazardous Decomposition** May decompose above 310°C forming trimethylester, dimethlyaminoacetic acid

### **Section 11: Toxicological Information**

### Information on toxicological effects

**OSHA HCS 2012** This substance is classified as not hazardous according to OSHA 29 CFR 1910.1200 HCS

Regulation (EC) No. 1272/2008 This substance is classified as not hazardous according to Regulation

(EC) No. 1272/2008 [CLP].

**Further information** After ingestion gastrointestinal complaints. Eye contact causes eye irritation.

### **Section 12: Ecological Information**

### **Toxicity**

The product is not ecotoxic

#### **Further information**

Avoid release to the environment

### **Section 13: Disposal Considerations**

### **General Information**

Dispose in accordance with current local authority regulations

### **Section 14: Transport Information**

### **General Information**

This product is not classified as a hazardous substance

### Labeling

Not applicable

### **Section 15: Regulatory Information**

## Occupational Safety and Health Administration

OSHA 29 CFR 1910.1200 HCS

# Other U.S. Federal Regulations

- Process Safety Management PSM
- Federal Insecticide, Fungicide, and Rodenticide Act FIFRA
- Toxic Substances Control Act TSCA
- The Comprehensive Environmental Response, Compensation, and Liability Act CERCLA
- The Superfund Amendments and Reauthorization Act SARA Title III
- Risk Management Plan RMP
- Resource Conservation and Recovery Act RCRA
- Clean Water Act CWA
- Food and Drug Administration FDA
- United States Department of Agriculture USDA

# The European Parliament and The Council of The European Union

- Regulation (EC) No. 1272/2008 of The European Parliament and of The Council of 16 December 2008
- Annex II of MARPOL73/78
- IBC Code

### Other Regulations

- Canadian Dangerous Substance List DSL
- Australian Inventory of Chemical Substances AICS
- Japan Existing and New Chemical Substances ENCS

### **Section 16: Other Information**

### **Hazard Ratings**

### **National Fire Protection Association (NFPA)**

• Fire – 1



- Health 2
- Reactivity 0
- Specific Hazard None

### **Abbreviations and acronyms**

- C Celsius
- F Fahrenheit
- q gram
- g/cm<sup>3</sup> Gram per cubic centimeter
- g/M³ gram per cubic meter
- g/mol gram per mole
- mJ millijoule
- CAS: Chemical Abstracts Service
- CFR: Code of Federal Regulations
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- HCS: Hazard Communication Standard
- LC50: Lethal concentration, 50%
- LD50: Lethal dose, 50%

Preparation Date: 12/04/19
Revision Date: 12/04/19
Version New
Supersedes New

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

The Amalgamated Sugar Company LLC 1951 South Saturn Way Suite 100 Boise, Idaho 83709