

MATERIAL SAFETY DATA SHEET

BETAINE ANHYDROUS 96%

ISSUE DATE: Jan 03, 2025

Section 1 - Chemical Product and Company Identification

MSDS Name : Betaine Anhydrous 96%

Synonyms : (Carboxymethyl)trimethylammonium hydroxide inner salt

Company Identification :

Shandong Aocter Feed Additives Co., Ltd.

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Section 2 - Composition, Information on Ingredients

Chemical Name : Betaine anhydrous

CAS# : 107-43-7

Percent : 96+

EINECS/ELINCS : 203-490-6

Section 3 - Hazards Identification

Appearance : white solid.

EMERGENCY OVERVIEW

Caution! May cause eye, skin, and respiratory tract irritation. Hygroscopic (absorbs moisture from the air). The toxicological properties of this material have not been fully investigated.

Target Organs : None known.

Potential Health Effects

Eye : May cause eye irritation.

Skin : May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion : May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation : May cause respiratory tract irritation. May be harmful if inhaled.

Chronic : No information found.

Section 4 - First Aid Measures

Eyes : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

Skin : Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion : Do not induce vomiting. Get medical aid if irritation or symptoms occur.

Inhalation : Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or

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other symptoms appear.

Notes to Physician : Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information : As in any fire, wear a self-contained breathing apparatus in pressure- demand, MSHA/NIOSH

(approved or equivalent), and full protective gear.

Extinguishing Media : Use water spray, dry chemical, carbon dioxide, or chemical foam.

Flash Point : Not available.

Autoignition Temperature : Not available.

Explosion Limits,

Lower : Not available.

Upper : Not available.

Section 6 - Accidental Release Measures

General Information : Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks : Vacuum or sweep up material and place into a suitable disposal container.

Avoid generating dusty conditions.

Provide ventilation. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling : Use with adequate ventilation. Minimize dust generation and accumulation.

Avoid contact with eyes, skin, and

clothing. Avoid ingestion and inhalation.

Storage : Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety

shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name : Betaine

ACGIH : none listed

NIOSH : none listed

OSHA - Final PELs : none listed

OSHA Vacated PELs : Betaine : No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection

regulations in 29 CFR 1910.133 or European Standard EN166.

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Skin : Wear appropriate protective gloves to prevent skin exposure.

Clothing : Wear appropriate protective clothing to prevent skin exposure.

Respirators : Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State : Solid

Appearance : white

Odor : slight characteristic odor

pH : 5 - 7 (5% aq. sol.)

Vapor Pressure : Not available.

Vapor Density : Not available.

Evaporation Rate : Not available.

Viscosity : Not available.

Boiling Point : Not available.

Freezing/Melting Point : 301 deg C

Decomposition Temperature : Not available.

Solubility : 160 g/100mL (25°C)

Specific Gravity/Density : Not available.

Molecular Formula : C₅H₁₁NO₂

Molecular Weight : 117.15

Section 10 - Stability and Reactivity

Chemical Stability : Hygroscopic: absorbs moisture or water from the air.

Conditions to Avoid : Incompatible materials, dust generation, exposure to moist air or water.

Incompatibilities with Other Materials : Strong oxidizing agents, trimethyl amine.

Hazardous Decomposition Products : Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization : Will not occur.

Section 11 - Toxicological Information

RTECS# : CAS# 107-43-7: DS5900000

LD50/LC50 : Not available.

Carcinogenicity :

CAS# 107-43-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology : No information found

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Teratogenicity : No information found

Reproductive Effects : No information found

Mutagenicity : No information found

Neurotoxicity : No information found

Other Studies :

Section 12 - Ecological Information

Ecotoxicity : No data available. No information available.

Environmental : No information available.

Physical : No information available.

Other : Do not empty into drains.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series : None listed.

RCRA U-Series : None listed.

Section 14 - Transport Information

Shipping Name:

US DOT - Not regulated.

China TDG - Not regulated.

Hazard Class :

UN Number :

Packing Group :

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 107-43-7 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

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CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act :

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA :

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 107-43-7 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level : None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols : Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 107-43-7: 0

Canada - DSL/NDSL

CAS# 107-43-7 is listed on Canada's DSL List.

Canada - WHMIS : not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

Section 16 - Additional Information

The information above is believed to be accurate and represents the best information

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