

# Safety Data Sheet

## Aldolase Control

according to OSHA HazCom 2012

Date of issue: 2 February 2020 | Revision date: 2 February 2020 | Version: 1.0



### Section 1: Identification

#### 1.1 Product identifier

**Product Name:** Aldolase Control

**Other Name of Identification:** Aldolase Liquid Control

#### Product Details:

**Product form:** Liquid.

**Product Code:** COAL 015 (4x3ml)

**Package description:** Single vial format in a pack of 4 x 3 ml (2 polypropylene vials of each level)

#### 1.2 Recommended use and restrictions on use

**Relevant uses:** Use as laboratory reagent chemicals  
Intended to monitor routine laboratory Aldolase testing.

**Uses advised against:** Not intended for human or animal diagnostic or therapeutic uses  
or used in the manufacture of food or pharmaceutical products

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

##### Product Manufacturer/Supplier:

**Supplier Name:** Caldón Biotech Inc.

**Address:** 1647 Andorre Glen, Escondido, CA 92029

**Email:** customersupport@caldonbiotech.com

**Web Site:** <https://caldonbiotech.com/>

**Tel:** (760) 727-7177

#### 1.4 Emergency telephone number:

Emergency telephone number: +1 (760) 727-7177 (Business hours)

### Section 2: Hazard(s) Identification

#### 2.1 Classification of the substance or mixture

Acute toxicity (oral), Category 4

Serious eye damage/eye irritation, Category 2

#### 2.2 GHS Label:

**Hazard pictograms** :



**GHS07**

**Signal word** : **Warning**

**Hazardous ingredients:** ethylene glycol

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### Hazard statements :

H319-Causes serious eye irritation

H302-Harmful if swallowed

### Precautionary statements:

P202 Do not handle until all safety precautions have been read and understood.  
P233 Keep container tightly closed.  
P234 Keep only in original container.  
P262 Do not get in eyes, on skin, or on clothing.  
P264 Wash face, hands and any exposed skin thoroughly after handling.  
P273 Avoid release to the environment.  
P235 + P410 Keep cool. Protect from sunlight.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P330 Rinse mouth.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P501 Dispose of contents/container to an approved landfill/ incineration plant/waste disposal plant.

### 2.3 Hazards not otherwise classified (HNOC)

None identified

## Section 3: Composition/Information on Ingredients

**3.1. Substances:** Not applicable

**3.2. Mixtures:** Aldolase Control is a buffer solution of aldolase. There are no ingredients/components with the concentration range present in the mixture, can be considered as hazard as per current knowledge of supplier.

Name	Identifier (CAS)	Concentration (%, w/w)	Classification according to GHS
ethylene glycol	CAS: 107-21-1	10-15	Acute Tox. 4 H302

\* All concentration (%) is mentioned based on approximation value.

\*\* Contact manufacturer to get 100% composition.

## Section 4: First-Aid Measures

### 4.1. Description of first aid measures

#### First-aid General:

Show this safety data sheet to the doctor in attendance. Get medical advice/attention if required.

#### First-aid after inhalation:

Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

#### First-aid after skin contact:

Wash skin with plenty of water. Soap may be used. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

#### First-aid after eye contact:

Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay. Suitable emergency eye wash facility should be immediately available.

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### First-aid after swallowing:

If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

### 4.2. Most important symptoms and effects:

#### Symptoms/effects after inhalation:

Not likely to occur since the product is a liquid and not a volatile product.

#### Symptoms/effects after skin contact:

May cause skin irritation. May cause an allergic skin reaction

#### Symptoms/effects after eye contact:

Cause serious eye irritation.

#### Symptoms/effects after ingestion:

Harmful if swallowed.

### 4.3. Immediate medical attention and special treatment if needed

Treat symptomatically.

## Section 5: Fire-Fighting Measures

### 5.1. Extinguishing media

**Suitable extinguishing media:** Use water spray, dry chemical, carbon dioxide or foam.

**Unsuitable extinguishing media:** None.

### 5.2. Specific hazards developing from the chemical

Non combustion Product. However, in case of fire or thermal decomposition carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), Nitrogen oxide (NO<sub>x</sub>), unburned hydrocarbons (smoke) and other irritating gases and vapors may release.

### 5.3. Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

#### Fire-fighting equipment/instructions:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if you can do so without risk. No action shall be taken involving any personal risk or without suitable training.

#### precautions for firefighters:

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus (SCBA). Complete protective clothing. If protective equipment is not available or not used, fight fire from a protected location or safe distance.

## Section 6: Accidental Release Measures

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

**General:** Keep away from heat/sparks/open flames/hot surfaces. No smoking.

#### For non-emergency personnel:

Protect from slipping if on floor. Put on appropriate personal protective equipment.

#### For emergency responders:

Evacuate unnecessary personnel. See also the information in "For nonemergency personnel". See protective measures under Section 7 and 8.

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### 6.2. Environmental precautions

Avoid release to the environment. Do not allow product to reach sewage system or any water course or ground water.

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

Clean up with water and absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

### 6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## Section 7: Handling and Storage

### 7.1. Precautions for safe handling

#### Protective measures:

Use personal protective equipment as required (see section 8). Use in accordance with good manufacturing and industrial hygiene practices.

#### Advice on general occupational hygiene:

Do not eat, drink and smoke where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Keep container tightly closed. Store between 2° and 8° C when not in use.

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

Keep container tightly closed. Store between 2° and 8° C. Keep away from acid, base and oxidizing agents.

### 7.3 Specific end use(s)

Use as directed

## Section 8: Exposure Controls/Personal Protection

### 8.1. Control parameters:

**Occupational exposure limits:** No Data Available

**Biological exposure Indices (BEI):** No Data Available

### 8.2 Exposure controls

#### Appropriate engineering controls:

Ensure exposure is below occupational exposure limits (where available). Use personal protective equipment to control the exposure (see section 8). Wash hands before breaks and at the end of workday.

#### Environmental exposure controls:

Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Hand protection recommended at workplace.

#### Eye/face protection:

Eye and face protection recommended at workplace.

#### Skin and body protection:

Skin protection recommended at workplace.

#### Respiratory protection:

Respiratory protection recommended at workplace.

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**Environmental exposure controls:**  
Prevent product from entering drains.  
Collect spillage.

### Section 9: Physical and Chemical Properties

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

Appearance	:	Clear Solution.
Physical state	:	Liquid
Color	:	Colorless
Odor	:	No Data Available
pH	:	7.5-8.5
pH solution	:	No Data Available
Relative evaporation rate (butyl acetate=1)	:	No Data Available
Relative evaporation rate (ether=1)	:	No Data Available
Melting point	:	No Data Available
Freezing point	:	No Data Available
Boiling point	:	~100 C
Flash point	:	No Data Available
Auto-ignition temperature	:	No Data Available
Decomposition temperature	:	No Data Available
Vapor pressure	:	No Data Available
Relative density	:	No Data Available
Density	:	No Data Available
Solubility	:	Soluble in water
Partition coefficient: n-octanol/water	:	No Data Available
Viscosity, kinematic	:	No Data Available
Explosive properties:	:	No Data Available
Lower explosive limit (LEL)	:	No Data Available
Upper explosive limit (UEL)	:	No Data Available
Flammability	:	Non Flammable

#### 9.2. Other information

VOC content	:	No Data Available
Solid Content	:	No Data Available

### Section 10: Stability and Reactivity

#### 10.1 Reactivity

Stable under recommended storage conditions.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

Heat, flames and sparks, high temperature and direct sunlight.

#### 10.5 Incompatible materials

Oxidizing agents, strong acids and bases.

#### 10.6 Hazardous decomposition products

Thermal decomposition may generate Carbon dioxides (CO<sub>2</sub>), carbon monoxide (CO), Nitrogen oxides (NO<sub>x</sub>) and irritant gases/vapors.

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### Section 11: Toxicological Information

#### 11.1. Information on toxicological effects

**Acute toxicity (oral):**

Harmful if swallowed.

**Acute toxicity (dermal):**

Not classified.

**Acute toxicity (inhalation):**

Not classified.

**Toxicology data for the components/mixture**

No Data Available

**Skin corrosion/irritation:**

Not Classified

**Serious eye damage/irritation:**

Cause serious eye irritation.

**Respiratory or skin sensitization:**

Not Classified

**Germ cell mutagenicity:**

Not Classified

**Carcinogenicity:**

Not Classified.

**Reproductive toxicity:**

Not Classified.

**STOT-single exposure:**

Not Classified.

**STOT-repeated exposure:**

Not Classified.

**Aspiration hazard:**

Not Classified.

### Section 12: Ecological Information

#### 12.1 Toxicity

**Ecology - general:** The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

**Acute aquatic toxicity:** Not classified

**Chronic aquatic toxicity:** Not classified

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

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### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

No data available

## Section 13: Disposal Considerations

### 13.1. Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## Section 14: Transport Information

### 14.1 UN number:

The Product is not regulated as a dangerous goods for transportation.

### 14.2 UN proper shipping name:

The Product is not regulated as a dangerous goods for transportation.

### 14.3 Transport hazard class(es):

The Product is not regulated as a dangerous goods for transportation.

### 14.4 Packaging group:

The Product is not regulated as a dangerous goods for transportation.

### 14.5 Environmental hazards:

The Product is not regulated as a dangerous goods for transportation.

### 14.6 Special precautions for user

The product is not regulated as dangerous goods according to regulation DOT, IMDG, IATA and ADR/RID

## Section 15: Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**OSHA-Regulations:** This safety datasheet complies with the requirements of OSHA HCS (29 CFR 1910.1200(g))

### WHMIS classification for product:

Not classified according to WHMIS

### U.S. Federal Regulations:

### TSCA Components:

Listed on the Inventory

### SARA 313 Components:

Name	CAS
ethylene glycol	107-21-1



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### SARA 311/312 Hazard Categories

No Data Available

### California Proposition 65 components:

Name	CAS
ethylene glycol	107-21-1

### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this mixture.

## Section 16: Other Information

### Full text of H- and EUH-statements:

H319-Causes serious eye irritation

H302-Harmful if swallowed

### Abbreviations and acronyms:

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
IC50	Concentration causing 50% blockade
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PNEC	Predicted no-effect concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	Very Persistent and very Bioaccumulative
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	United Nations; Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
WGK	Water Hazard Class
CWA	Clean Air Act
SARA	Superfund Amendments and Reauthorization Act
CAA	Clean Air Act
STOT RE	Specific Target Organ Toxicity - Repeated Exposure
STOT SE	Specific Target Organ Toxicity - Single Exposure
log Kow	Octanol-water partition coefficient



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### Statement:

The information in this safety data sheet is to the best of our current knowledge true and accurate. It does not represent any guarantee of the properties, all data, instructions, recommendations and/or suggestions of the product.

The Employer and User should make their own responsibility for investigations to determine the suitability of the information for their particular purposes. The company and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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