

### SECTION 1: Identification

#### 1.1. Identification

Product form : Coupling buffer  
 Trade name : ALD Coupling Solution  
 Product code : 9704

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

Use of the substance/mixture : Manufacture of substances

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

Sterogene Bioseparations, Inc.  
 1949 Kellogg Avenue, Carlsbad, CA 92008  
 Telephone Number: (760) 929-0455  
 Contact Person: James Dansford  
 jdanford@sterogene.com

#### 1.4. Emergency telephone number

Emergency number : (951) 447-9994

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Acute toxicity, Oral (Category 4) H302  
 Acute toxicity, Inhalation (Category 4) H332  
 Acute aquatic toxicity (Category 2) H401  
 Chronic aquatic toxicity (Category 2) H411

Full text of H-statements: see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H302 + 332 – Harmful if swallowed or if inhaled  
 H411 – Toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) :

P261 - Avoid breathing dust/fumes/gas/mist/vapors/spray  
 P264 - Wash skin thoroughly after handling  
 P270 - Do not eat, drink or smoke when using this product  
 P271 - Use only outdoors or in a well-ventilated area  
 P273 - Avoid release to the environment  
 P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P312 - Call a POISON CENTER or doctor/physician if you feel  
 P330 - Rinse mouth  
 P391 – Collect spillage  
 P501 - Dispose of contents/container to hazardous or special waste collection point

#### 2.3. Other hazards

Other hazards which do not result in classification :

None

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

# ALD Coupling Solution

## Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixture

Name	Product identifier	Concentration	GHS-US classification
Sodium Cyanoborohydride	(CAS No) 25895-60-7	≥ 1.0 - ≤ 10%	Flam. Sol. 1; Acute Tox. 2; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H228 + H300 + H310 + H330 + H314 + H318 + H410

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: If exposed or concerned: Get medical advice/attention. Show this SDS to doctor in attendance.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact	: Rinse skin with soap and plenty of water. Consult a physician.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

The most important symptoms and effects are described in the labeling (see section 2.2).

#### 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 : Water spray. Dry powder. Alcohol resistant foam. Carbon dioxide.

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

Fire hazard : Hydrogen chloride gas, Sodium oxides

#### 5.3. Advice for firefighters

Firefighting instructions / Protective equipment : Exercise caution when fighting any chemical fire. Use fire-extinguishing media appropriate for surrounding materials. Self-contained breathing apparatus if necessary.

### SECTION 6: Accidental release measures

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

Emergency procedures / Protective equipment : Ensure adequate ventilation. Use personal protective equipment. Do not breathe vapors, spray, and mist.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment / Cleaning up : Stop leak, if possible without risk. Do not let product enter drains. Take up liquid spill into absorbent material.

#### 6.4. Reference to other sections

For disposal information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Do not breathe vapors, spray, and mist. Avoid contact with skin and eyes.

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

Storage conditions : Keep container tightly closed. Store at 2 - 8 °C

# ALD Coupling Solution

## Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Contains no substances with occupational exposure limit values.

#### 8.2. Exposure controls

Appropriate engineering controls	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.
Hand protection	: Impermeable protective gloves.
Eye protection	: Safety glasses or face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental exposure controls	: Avoid release to the environment.

### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

No data available

# ALD Coupling Solution

## Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

### 10.5. Incompatible materials

Avoid contact with acids.

### 10.6. Hazardous decomposition products

Thermal decomposition may yield Hydrogen chloride gas and Sodium oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure	: Oral; Inhalation; Skin and eye contact
Acute toxicity	: No data available
Skin corrosion/irritation	: No data available
Serious eye damage/irritation	: No data available
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH or OSHA. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Reproductive toxicity	: No data available
Specific target organ toxicity (single exposure)	: No data available
Specific target organ toxicity (repeated exposure)	: No data available
Aspiration hazard	: No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

No data available

### 12.2. Persistence and degradability

No data available

### 12.3. Mobility in soil

No data available

### 12.4. Mobility in soil

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of in conformance with all applicable federal, state and local laws and regulations.

## SECTION 14: Transport information

### Department of Transportation (DOT)

Not dangerous goods

### IMDG

UN number: 3082      Class: 9      Packing group: III      EMS-No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sodium Cyanotrihydroborate)  
Marine pollutant: Yes

### IATA

UN number: 3082      Class: 9      Packing group: III  
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.

### Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with dangerous goods > 5L for liquids or > 5kg for solids.

# ALD Coupling Solution

## Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### SARA 302 Components

No chemical in this material is subject to the reporting requirements of SARA Title III, Section 302.

##### SARA 313 Components

This material does not contain any chemical component that exceeds the threshold (De Minimis) reporting level established by SARA Title III, Section 313.

##### New Jersey Right to Know Components

No component is subject to the New Jersey Right to Know Act.

##### Massachusetts Right to Know Components

No component is subject to the Massachusetts Right to Know Act.

##### Pennsylvania Right to Know Components

No component is subject to the Pennsylvania Right to Know Act.

##### California Proposition 65 Components

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Sodium cyanoborohydride                      CAS-No. 25895-60-7

### SECTION 16: Other information

Full text of H-statements:

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
Flam. Sol.	Flammable Solid
H228	Flammable solid
H300 + H310 + H330	Fatal if swallowed, in contact with skin or if inhaled
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
Skin Corr.	Skin corrosion

The information contained herein is presented in good faith and is believed to be correct as of the date prepared, but does not purport to be all inclusive. Regulatory requirements are subject to change and may differ depending on location. It is the customer's responsibility to ensure that its activities are in compliance with local, state, federal or provincial laws.

No information contained in this document is to be taken as a warranty for which Sterogene Bioseparations, Inc. bears responsibility. Sterogene shall not be held liable for any damage resulting from handling or from contact with the product. All materials may present hazards and should be used with caution. Although specific hazards are described, we cannot guarantee that these are the only hazards that exist.