

Safety Data Sheet #: SDS-80-ADAHU-FC100

Revision: 2.0 Last Revised: 18May26

Product Number	Product Name	Components
80-ADAHU-FC100	Adalimumab Total Anti-Drug Antibody CLIA Kit, 100 tests	Reagent Cartridge 900-ADACG -Master Mix -Bead Solution -Dissociation Buffer -Neutralization Buffer Ancillary Cartridge 900-ADAAG -Assay Buffer Re-Calibrators 900-92R(1-2) Controls 900-KADAC(1-2)

The Re-Calibrators and Controls in the Adalimumab Total Anti-Drug Antibody CLIA Kit is classified as not dangerous according to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and CLP (EC) No 1272/2008.

SECTION 1: Identification

1.1 Product Identifier

Product Form: Mixture
 Product Name & Codes: Adalimumab Total Anti-Drug Antibody CLIA Reagent Cartridge (900-ADACG) – Bead Solution and Master Mix
 Adalimumab Total Anti-Drug Antibody Ancillary Cartridge (900-ADAAG) – Assay Buffer

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Uses: For in vitro laboratory use. For professional use only.

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer's Name: American Laboratory Products Co. (ALPCO)
 Address: 26-G Keewaydin Drive, Salem, NH, US 03079
 Information Phone Number: 603-893-8914
 Fax Number: 603-898-6854

1.4 Emergency Telephone Number

Emergency Phone: 911 in the United States. Local emergency number in other territories.

SECTION 2: Hazard Identification

2.1 Classification of the Substance or Mixture

Classification

Skin Sensitizer – Category 1
 Acute Toxicity – Category 4
 Eye – Category 2

These classifications were evaluated according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and to Regulation (EC) No 1272/2008.

2.2 Label Elements

Pictograms:



Signa Word: Warning

Hazardous Statements - Health

H302 - Harmful if swallowed
 H316 - Causes mild skin irritation
 H317 - May cause an allergic skin reaction
 H320 – Causes eye irritation

Precautionary Statements - General

P270 – Do not eat, drink, or smoke when using this product

Precautionary Statements - Prevention

P261 – Avoid breathing dust/fume/gas/mist/vapor/spray

P262 – Do not get in eye, on skin, or on clothing

P264 – Wash thoroughly after handling

P280 - Wear protective gloves, protective clothing, eye protection/face protection

Precautionary Statements - Response

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 – Call a poison center or doctor if you feel unwell

P391 – Collect spillage

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 – If skin irritation or rash occurs seek medical attention

P337 + P313 – If eye irritation persists seek medical attention

P362 + P364 – Remove contaminated clothing and wash before re-use

Precautionary Statements - Storage

No precautionary statement available.

Precautionary Statements - Disposal

P501 - Dispose of contents/container in accordance with local/national/international regulations.

2.3 Other Hazards

No additional information available.

SECTION 3: Composition / Information on Ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

CAS No.	EC No.	Chemical Name	% by Weight in Mixture	Classification according to (EC) No 1272/2008 (based on concentration in mixture)	(EC) 1272/2008 Annex I Generic Cut-off Limits	Specific Concentration Limit (SCL)
0009048-46-8	232-936-2	Albumins, Blood Serum	1% to 5%	Acute Toxicity Category 4	≥ 1%	No Data Available
0055965-84-9	932-593-5	2-Methyl-1,2-Thiazol-3(2H)-one-5-chloro-2-methyl-1,2-thiazol-3(2H)-one (1:1)	< 0.05%	Skin Sensitizer Category 1 Skin Irritant Category 2 Eye Irritant Category 2	≥0.1% ≥1% ≥1%	Skin Sens. 1: C≥0.0015% Skin Irrit. 2 0.06≤C≤0.6% Eye Irrit. 2 0.06≤C≤0.6%

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. Seek medical attention if you feel unwell.

First-aid measures after skin contact	Remove affected clothing and wash skin with water for > 15 minutes. If skin irritation or rash occurs seek medical attention. Wash contaminated clothing before re-use.
First-aid measures after eye contact	Immediately flush with water for > 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If eye irritation persists, seek medical attention. Avoid direct contact. Wear protective gloves if necessary.
First-aid measures after ingestion	If swallowed, rinse mouth thoroughly. Do not induce vomiting without advice from poison center. Get medical attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	May cause respiratory irritation
Symptoms/effects after skin contact	May cause skin irritation. Repeated exposure may cause dryness or cracking.
Symptoms/effects after eye contact	Direct contact with the eyes is likely to be irritating. Symptoms may include discomfort or pain, excess blinking, and tear production, with possible redness and swelling.
Symptoms/effects after ingestion	May cause gastrointestinal irritation

4.3 Indication of any immediate medical attention and special treatment needed

Treat according to symptoms (decontamination, vital functions), no known specific antidote. Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Small Fire - Dry powder. Carbon dioxide. Water spray. Alcohol-resistant foam Large Fire – Water spray, fog, or alcohol-resistant foam
------------------------------	--

5.2 Special hazards arising from the substance or mixture

Products of combustion may produce, but are not limited to, oxides of carbon. Runoff may pollute waterways.

5.3 Advice for firefighters

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Ventilate closed spaces before entering. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Avoid breathing vapor or mist. Avoid contact with skin, eye, or clothing.

6.2 Environmental precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

6.3 Methods and material for containment and clean-up

Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal. Ventilate area after clean-up is complete. Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation of the workstation. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. All containers must be properly labelled. Eyewash stations and showers should be available in areas where this material is used and stored Do not get in eyes, on skin, or on clothing.

7.2 Conditions for safe storage, including any incompatibilities

Seal container tightly and store at 2-8 °C when not in use. Empty containers retain residue and should be handled as potentially hazardous material.

7.3 Specific end use(s)

For *in vitro* laboratory use. For professional use only.

SECTION 8: Exposure Controls / Personal Protection

8.1 Control parameters

This product, as supplied, does not contain hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

8.2 Exposure controls

Hand protection	Protective gloves
Eye protection	Safety glasses
Skin and body protection	Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene, or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced.
Respiratory protection	Not required under normal use
Appropriate engineering controls	Showers, eyewash stations, ventilation systems

None of None of the chemicals in Section 3 are regulated under "ACGIH_carcinogen", "ACGIH_Notations", "ACGIH_TLV_Basis", "ACGIHsmsg", "ACGIHsppm", "ACGIHtmg", "ACGIHtppm", "CAN_AL_Carcinogen", "CAN_AL_Notation", "CAN_ALsmsg", "CAN_ALsppm", "CAN_ALtmg", "CAN_ALtppm", "CAN_ONsmsg", "CAN_ONsppm", "CAN_ONtmg", "CAN_ONtppm", "CAN_QCVECDmg - CANADA_QUEBEC VALEUR D'EXPOSITION DE COURTE DURÉE_mg", "CAN_QCVECDppm - CANADA_QUEBEC VALEUR D'EXPOSITION DE COURTE DURÉE_ppm", "CAN_QCVEMPmg - CANADA_QUEBEC VALEUR D'EXPOSITION MOYENNE PONDÉRÉE_mg", "CAN_QCVEMPppm - CANADA_QUEBEC VALEUR D'EXPOSITION MOYENNE PONDÉRÉE_ppm", "CANsmsg", "CANsppm", "CANtmg", "CANtppm", "NIOSH_carcinogen", "nioshsmsg", "nioshsppm", "nioshtmg", "nioshtppm", "OSHA_SkinDesignation", "OSHA_Tables_Z1_Z2_Z3", "OSHACarcinogen - OSHA Carcinogen", "OSHAsmsg", "OSHAsppm", "OSHAtmg", "OSHAtppm"

SECTION 9: Physical and chemical properties

9.1 Information on physical and chemical properties.

Physical state	Liquid
Color	Bead Sol'n.: light brown Master Mix: yellow Assay Buffer: colorless
Odor	No data available
Odor threshold	No data available
pH	6.8 – 7.2
Relative evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapor pressure	No data available
Relative vapor density at 20 °C	No data available
Relative density	No data available
Solubility	Water soluble
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Explosion limits	No data available

9.2 Other information

No additional information available.

SECTION 10: Physical and chemical properties

10.1 Reactivity

This product is non-reactive under normal conditions of use, storage, and transport.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use

10.4 Conditions to avoid

Heat. Incompatible materials.

10.5 Incompatible materials

Strong bases, acids, and oxidizing agents

10.6 Hazardous decomposition products

Oxides of carbon

SECTION 11: Toxicological information

11.1 Information on toxicological effects.

Acute toxicity.	May be harmful in contact with skin or if swallowed.
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
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified
Likely routes of exposure	Inhalation, ingestion, skin contact, eye contact

SECTION 12: Ecological information

12.1 Toxicity

Based on available data, the classification criteria are not met.

12.2 Persistence and Degradation

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

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

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state, and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

SECTION 14: Transport information

14.1 UN number

Not regulated for transport

14.2 UN proper shipping name

Proper Shipping Name (U.S. DOT)	Not applicable
Proper Shipping Name (ADR)	Not applicable
Proper Shipping Name (IMDG)	Not applicable
Proper Shipping Name (IATA)	Not applicable

Proper Shipping Name (RID) Not applicable
Proper Shipping Name (Canada TDG) Not applicable

14.3 Transport hazard class(es)

Transport hazard class(es) (U.S. DOT) Not applicable
Transport hazard class(es) (ADR) Not applicable
Transport hazard class(es) (IMDG) Not applicable
Transport hazard class(es) (IATA) Not applicable
Transport hazard class(es) (RID) Not applicable
Transport hazard class(es) (Canada TDG) Not applicable

14.4 Packing group

Packing Group (U.S. DOT) Not applicable
Packing Group (ADR) Not applicable
Packing Group (IMDG) Not applicable
Packing Group (IATA) Not applicable
Packing Group (RID) Not applicable
Packing Group (Canada TDG) Not applicable

14.5 Environmental hazards

Dangerous for the environment No
Marine pollutant No
Other information No supplementary information available

14.6 Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

CAS No.	Chemical Name	% by Weight in Mixture	Regulation List
0055965-84-9	2-Methyl-1,2-Thiazol-3(2H)-one-5-chloro-2-methyl-1,2-thiazol-3(2H)-one (1:1)	< 0.05%	DSL SARA312

15.1.1 EU-Regulations

Contains no REACH substances with Annex XVII restrictions
 Contains no REACH candidate substances
 Contains no REACH Annex XIV substances

15.1.2 National regulations

No additional information available

15.2 Chemical safety assessment

No chemical safety assessment has been carried out

US State Regulation

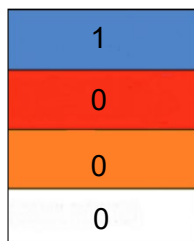
California Proposition 65 – This product does not contain any substances known to the State of California to cause cancer, developmental and/or reproductive harm.

SECTION 16: Other information

Glossary

ADR - Agreements Concerning the International Carriage of Dangerous Goods by Road; CAS - Chemical Abstracts Service ; CLP – Classification, Labeling, and Packaging; EC – European Commission; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; OSHA- Occupational Safety and Health Administration, US Department of Labor; REACH - Registration, Evaluation, Authorization, and Restriction of Chemicals; RID - Agreements Concerning the International Carriage of Dangerous Goods by Rail; SCL – Specific Concentration Limit; TDG – Transportation of Dangerous Goods; US DOT- US Department of Transportation; WHMIS – Canadian Workplace Material Information System.

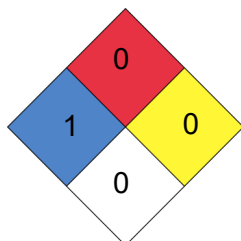
HMIS



Personal Protection

(*) - Chronic effects

NFPA



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not be construed as guaranteeing any specific property of the product.

Version 2.0:

Revision Date: 18May26

SECTION 1: Identification

1.1 Product Identifier

Product Form: Mixture
 Product Name & Codes: Adalimumab Total Anti-Drug Antibody Reagent Cartridge (900-ADACG) – Dissociation Buffer

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Uses: For in vitro laboratory use. For professional use only.

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer's Name: American Laboratory Products Co. (ALPCO)
 Address: 26-G Keewaydin Drive, Salem, NH, US 03079
 Information Phone Number: 603-893-8914
 Fax Number: 603-898-6854

1.4 Emergency Telephone Number

Emergency Phone: 911 in the United States. Local emergency number in other territories.

SECTION 2: Hazard Identification

2.1 Classification of the Substance or Mixture

Classification

Skin Sensitizer – Category 2
 Eye Irritant – Category 2

These classifications were evaluated according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and to Regulation (EC) No 1272/2008.

2.2 Label Elements

Pictograms:



Signal Word: Warning

Hazardous Statements - Health

H302 - Harmful if swallowed
 H316 - Causes mild skin irritation
 H320 - Causes eye irritation

Precautionary Statements - Prevention

P280 - Wear protective gloves, protective clothing, eye protection/face protection
 P262 - Do not get in eye, on skin, or on clothing
 P264 - Wash skin thoroughly after handling

Precautionary Statements - Response

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 - Call a poison center or doctor if you feel unwell
 P391 - Collect spillage

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 – If skin irritation or rash occurs seek medical attention

P337 + P313 – If eye irritation persists seek medical attention

P362 + P364 – Remove contaminated clothing and wash before re-use

Precautionary Statements - Storage

No precautionary statement available.

Precautionary Statements - Disposal

P501 - Dispose of contents/container in accordance with local/national/international regulations.

2.3 Other Hazards

No additional information available.

SECTION 3: Composition / Information on Ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

CAS No.	EC No.	Chemical Name	% by Weight in Mixture	Classification according to (EC) No 1272/2008 (based on concentration in mixture)	(EC) 1272/2008 Annex I Generic Cut-off Limits
64-19-7	200-580-7	Glacial Acetic Acid	1-5%	Not classified as hazardous	≥10%

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. Seek medical attention if you feel unwell.
First-aid measures after skin contact	Remove affected clothing and wash skin with water for > 15 minutes. If skin irritation or rash occurs seek medical attention. Wash contaminated clothing before re-use.
First-aid measures after eye contact	Immediately flush with water for > 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If eye irritation persists, seek medical attention.
First-aid measures after ingestion	If swallowed, rinse mouth thoroughly. Call a poison center or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	May cause respiratory irritation
Symptoms/effects after skin contact	May cause skin irritation
Symptoms/effects after eye contact	Direct contact with the eyes is likely to be irritating
Symptoms/effects after ingestion	May cause gastrointestinal 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 Dry powder. Foam. Carbon dioxide. Water spray.

5.2 Special hazards arising from the substance or mixture

Products of combustion may produce, but are not limited to, oxides of carbon. Runoff may pollute waterways.

5.3 Advice for firefighters

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and clean-up

Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal. Ventilate area after clean-up is complete. Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation of the workstation. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. All containers must be properly labelled. Eyewash stations and showers should be available in areas where this material is used and stored Do not get in eyes, on skin, or on clothing.

7.2 Conditions for safe storage, including any incompatibilities

Seal container tightly and store at 2-8 °C when not in use. Empty containers retain residue and should be handled as potentially hazardous material.

7.3 Specific end use(s)

For *in vitro* laboratory use. For professional use only.

SECTION 8: Exposure Controls / Personal Protection

8.1 Control parameters

This product, as supplied, does not contain hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

8.2 Exposure controls

Hand protection	Protective gloves
Eye protection	Safety glasses
Skin and body protection	Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene, or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced.
Respiratory protection	Not required under normal use
Appropriate engineering controls	Showers, eyewash stations, ventilation systems

None of None of the chemicals in Section 3 are regulated under "ACGIH_carcinogen", "ACGIH_Notations", "ACGIH_TLV_Basis", "ACGIHsmg", "ACGIHsppm", "ACGIHtmg", "ACGIHtppm", "CAN_AL_Carcinogen", "CAN_AL_Notation", "CAN_ALsmg", "CAN_ALsppm", "CAN_ALtmg", "CAN_ALtppm", "CAN_ONsmg", "CAN_ONsppm", "CAN_ONtmg", "CAN_ONtppm", "CAN_QCVECDmg - CANADA_QUEBEC VALEUR D'EXPOSITION DE COURTE DURÉE_mg", "CAN_QCVECDppm - CANADA_QUEBEC VALEUR D'EXPOSITION DE COURTE DURÉE_ppm", "CAN_QCVEMPmg - CANADA_QUEBEC VALEUR D'EXPOSITION MOYENNE PONDÉRÉE_mg", "CAN_QCVEMPppm - CANADA_QUEBEC VALEUR D'EXPOSITION MOYENNE PONDÉRÉE_ppm", "CANsmg", "CANsppm", "CANTmg", "CANTppm", "NIOSH_carcinogen", "nioshsmg", "nioshsppm", "nioshtmg", "nioshtppm", "OSHA_SkinDesignation", "OSHA_Tables_Z1_Z2_Z3", "OSHACarcinogen - OSHA Carcinogen", "OSHAsmg", "OSHAsppm", "OSHAtmg", "OSHAtppm"

SECTION 9: Physical and chemical properties

9.1 Information on physical and chemical properties.

Physical state	Liquid
Color	Clear
Odor	No data available
Odor threshold	No data available
pH	2.9 – 3.1
Relative evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapor pressure	No data available
Relative vapor density at 20 °C	No data available
Relative density	No data available
Solubility	Water soluble
Partition coefficient n-octanol/water (Log Pow)	No data available

Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidizing properties	No data available

Explosion limits No data available

9.2 Other information

No additional information available.

SECTION 10: Physical and chemical properties

10.1 Reactivity

This product is non-reactive under normal conditions of use, storage, and transport.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use

10.4 Conditions to avoid

None under recommended storage and handling conditions (see section 7)

10.5 Incompatible materials

Strong bases, acids, and oxidizing agents

10.6 Hazardous decomposition products

Oxides of carbon

SECTION 11: Toxicological information

11.1 Information on toxicological effects.

Acute toxicity.	May be harmful in contact with skin or if swallowed.
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
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified
Likely routes of exposure	Inhalation, ingestion, skin contact, eye contact

SECTION 12: Ecological information

12.1 Toxicity

Based on available data, the classification criteria are not met.

12.2 Persistence and Degradation

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

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

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state, and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

SECTION 14: Transport information

14.1 UN number

Not regulated for transport

14.2 UN proper shipping name

Proper Shipping Name (U.S. DOT)	Not applicable
Proper Shipping Name (ADR)	Not applicable
Proper Shipping Name (IMDG)	Not applicable
Proper Shipping Name (IATA)	Not applicable
Proper Shipping Name (RID)	Not applicable
Proper Shipping Name (Canada TDG)	Not applicable

14.3 Transport hazard class(es)

Transport hazard class(es) (U.S. DOT)	Not applicable
Transport hazard class(es) (ADR)	Not applicable
Transport hazard class(es) (IMDG)	Not applicable
Transport hazard class(es) (IATA)	Not applicable
Transport hazard class(es) (RID)	Not applicable
Transport hazard class(es) (Canada TDG)	Not applicable

14.4 Packing group

Packing Group (U.S. DOT)	Not applicable
Packing Group (ADR)	Not applicable
Packing Group (IMDG)	Not applicable
Packing Group (IATA)	Not applicable
Packing Group (RID)	Not applicable
Packing Group (Canada TDG)	Not applicable

14.5 Environmental hazards

Dangerous for the environment No
 Marine pollutant No
 Other information No supplementary information available

14.6 Spacial precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

CAS No.	Chemical Name	% by Weight in Mixture	Regulation List
64-19-7	Glacial acetic acid	1-5%	

15.1.1 EU-Regulations

Contains no REACH substances with Annex XVII restrictions
 Contains no REACH candidate substances
 Contains no REACH Annex XIV substances

15.1.2 National regulations

No additional information available

15.2 Chemical safety assessment

No chemical safety assessment has been carried out

US State Regulation

California Proposition 65 – This product does not contain any substances known to the State of California to cause cancer, developmental and/or reproductive harm.

SECTION 16: Other information

Glossary

ADR - Agreements Concerning the International Carriage of Dangerous Goods by Road; CAS - Chemical Abstracts Service ; CLP – Classification, Labeling, and Packaging; EC – European Commission; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG -

International Maritime Dangerous Goods Code; OSHA- Occupational Safety and Health Administration, US Department of Labor; REACH - Registration, Evaluation, Authorization, and Restriction of Chemicals; RID - Agreements Concerning the International Carriage of Dangerous Goods by Rail; SCL – Specific Concentration Limit; TDG – Transportation of Dangerous Goods; US DOT- US Department of Transportation; WHMIS – Canadian Workplace Material Information System.

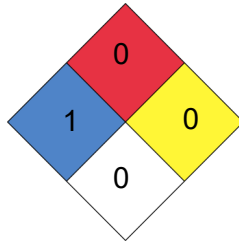
HMIS



Personal Protection

(*) - Chronic effects

NFPA



Caution: HMIS[®] ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not be construed as guaranteeing any specific property of the product.

Version 1.0:

Revision Date: 24Mar26

SECTION 1: Identification

1.1 Product Identifier

Product Form: Mixture
 Product Name & Codes: Adalimumab Total Anti-Drug Antibody Reagent Cartridge (900-ADACG) – Neutralization Buffer

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Uses: For in vitro laboratory use. For professional use only.

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer's Name: American Laboratory Products Co. (ALPCO)
 Address: 26-G Keewaydin Drive, Salem, NH, US 03079
 Information Phone Number: 603-893-8914
 Fax Number: 603-898-6854

1.4 Emergency Telephone Number

Emergency Phone: 911 in the United States. Local emergency number in other territories.

SECTION 2: Hazard Identification

2.1 Classification of the Substance or Mixture


Classification

Skin Sensitizer – Category 2

Eye Irritant – Category 2

These classifications were evaluated according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and to Regulation (EC) No 1272/2008.

2.2 Label Elements

Pictograms: 

Signal Word: Warning

Hazardous Statements - Health

H302 - Harmful if swallowed

H316 - Causes mild skin irritation

H320 - Causes eye irritation

Precautionary Statements - Prevention

P280 - Wear protective gloves, protective clothing, eye protection/face protection

P262 - Do not get in eye, on skin, or on clothing

P264 - Wash skin thoroughly after handling

Precautionary Statements - Response

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 – Call a poison center or doctor if you feel unwell

P391 – Collect spillage

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 – If skin irritation or rash occurs seek medical attention

P337 + P313 – If eye irritation persists seek medical attention

P362 + P364 – Remove contaminated clothing and wash before re-use

Precautionary Statements - Storage

No precautionary statement available.

Precautionary Statements - Disposal

P501 - Dispose of contents/container in accordance with local/national/international regulations.

2.3 Other Hazards

No additional information available.

SECTION 3: Composition / Information on Ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

CAS No.	EC No.	Chemical Name	% by Weight in Mixture	Classification according to (EC) No 1272/2008 (based on concentration in mixture)	(EC) 1272/2008 Annex I Generic Cut-off Limits
77-86-1	200-580-7	Tris (hydroxymethyl) aminomethane	10-30%	Not classified as hazardous	N/A

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. Seek medical attention if you feel unwell.
First-aid measures after skin contact	Remove affected clothing and wash skin with water for > 15 minutes. If skin irritation or rash occurs seek medical attention. Wash contaminated clothing before re-use.
First-aid measures after eye contact	Immediately flush with water for > 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If eye irritation persists, seek medical attention.
First-aid measures after ingestion	If swallowed, rinse mouth thoroughly. Call a poison center or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	May cause respiratory irritation
Symptoms/effects after skin contact	May cause skin irritation

Symptoms/effects after eye contact

Direct contact with the eyes is likely to be irritating

Symptoms/effects after ingestion

May cause gastrointestinal 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

Dry powder. Foam. Carbon dioxide. Water spray.

5.2 Special hazards arising from the substance or mixture

Products of combustion may produce, but are not limited to, oxides of carbon. Runoff may pollute waterways.

5.3 Advice for firefighters

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and clean-up

Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal. Ventilate area after clean-up is complete. Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation of the workstation. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. All containers must be properly labelled. Eyewash stations and showers should be available in areas where this material is used and stored Do not get in eyes, on skin, or on clothing.

7.2 Conditions for safe storage, including any incompatibilities

Seal container tightly and store at 2-8 °C when not in use. Empty containers retain residue and should be handled as potentially hazardous material.

7.3 Specific end use(s)

For *in vitro* laboratory use. For professional use only.

SECTION 8: Exposure Controls / Personal Protection

8.1 Control parameters

This product, as supplied, does not contain hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

8.2 Exposure controls

Hand protection	Protective gloves
Eye protection	Safety glasses
Skin and body protection	Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene, or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced.
Respiratory protection	Not required under normal use
Appropriate engineering controls	Showers, eyewash stations, ventilation systems

None of None of the chemicals in Section 3 are regulated under "ACGIH_carcinogen", "ACGIH_Notations", "ACGIH_TLV_Basis", "ACGIHsmg", "ACGIHsppm", "ACGIHtmg", "ACGIHtppm", "CAN_AL_Carcinogen", "CAN_AL_Notation", "CAN_ALsmg", "CAN_ALsppm", "CAN_ALtmg", "CAN_ALtppm", "CAN_ONsmg", "CAN_ONsppm", "CAN_ONtmg", "CAN_ONtppm", "CAN_QCVECDmg - CANADA_QUEBEC VALEUR D""EXPOSITION DE COURTE DURÉE_mg", "CAN_QCVECDppm - CANADA_QUEBEC VALEUR D"EXPOSITION DE COURTE DURÉE_ppm", "CAN_QCVEMPmg - CANADA_QUEBEC VALEUR D"EXPOSITION MOYENNE PONDÉRÉE_mg", "CAN_QCVEMPppm - CANADA_QUEBEC VALEUR D"EXPOSITION MOYENNE PONDÉRÉE_ppm", "CANsmg", "CANsppm", "CANTmg", "CANTppm", "NIOSH_carcinogen", "nioshsmg", "nioshsppm", "nioshtmg", "nioshtppm", "OSHA_SkinDesignation", "OSHA_Tables_Z1_Z2_Z3", "OSHACarcinogen - OSHA Carcinogen", "OSHAsmg", "OSHAsppm", "OSHAtmg", "OSHAtppm"

SECTION 9: Physical and chemical properties

9.1 Information on physical and chemical properties.

Physical state	Liquid
Color	Clear
Odor	No data available
Odor threshold	No data available
pH	9.4 – 9.6
Relative evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapor pressure	No data available
Relative vapor density at 20 °C	No data available
Relative density	No data available
Solubility	Water soluble

Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Explosion limits	No data available

9.2 Other information

No additional information available.

SECTION 10: Physical and chemical properties

10.1 Reactivity

This product is non-reactive under normal conditions of use, storage, and transport.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use

10.4 Conditions to avoid

None under recommended storage and handling conditions (see section 7)

10.5 Incompatible materials

Strong bases, acids, and oxidizing agents

10.6 Hazardous decomposition products

Oxides of carbon

SECTION 11: Toxicological information

11.1 Information on toxicological effects.

Acute toxicity.	May be harmful in contact with skin or if swallowed.
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
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified
Likely routes of exposure	Inhalation, ingestion, skin contact, eye contact

SECTION 12: Ecological information

12.1 Toxicity

Based on available data, the classification criteria are not met.

12.2 Persistence and Degradation

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

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

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state, and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

SECTION 14: Transport information

14.1 UN number

Not regulated for transport

14.2 UN proper shipping name

Proper Shipping Name (U.S. DOT)	Not applicable
Proper Shipping Name (ADR)	Not applicable
Proper Shipping Name (IMDG)	Not applicable
Proper Shipping Name (IATA)	Not applicable
Proper Shipping Name (RID)	Not applicable
Proper Shipping Name (Canada TDG)	Not applicable

14.3 Transport hazard class(es)

Transport hazard class(es) (U.S. DOT)	Not applicable
Transport hazard class(es) (ADR)	Not applicable
Transport hazard class(es) (IMDG)	Not applicable
Transport hazard class(es) (IATA)	Not applicable
Transport hazard class(es) (RID)	Not applicable
Transport hazard class(es) (Canada TDG)	Not applicable

14.4 Packing group

Packing Group (U.S. DOT)	Not applicable
Packing Group (ADR)	Not applicable
Packing Group (IMDG)	Not applicable
Packing Group (IATA)	Not applicable
Packing Group (RID)	Not applicable
Packing Group (Canada TDG)	Not applicable

14.5 Environmental hazards

Dangerous for the environment No
 Marine pollutant No
 Other information No supplementary information available

14.6 Spacial precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

CAS No.	Chemical Name	% by Weight in Mixture	Regulation List
77-86-1	Tris (hydroxymethyl) aminomethane	10-30%	

15.1.1 EU-Regulations

Contains no REACH substances with Annex XVII restrictions
 Contains no REACH candidate substances
 Contains no REACH Annex XIV substances

15.1.2 National regulations

No additional information available

15.2 Chemical safety assessment

No chemical safety assessment has been carried out

US State Regulation

California Proposition 65 – This product does not contain any substances known to the State of California to cause cancer, developmental and/or reproductive harm.

SECTION 16: Other information

Glossary

ADR - Agreements Concerning the International Carriage of Dangerous Goods by Road; CAS - Chemical Abstracts Service ; CLP – Classification, Labeling, and Packaging; EC – European Commission; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG -

International Maritime Dangerous Goods Code; OSHA- Occupational Safety and Health Administration, US Department of Labor; REACH - Registration, Evaluation, Authorization, and Restriction of Chemicals; RID - Agreements Concerning the International Carriage of Dangerous Goods by Rail; SCL – Specific Concentration Limit; TDG – Transportation of Dangerous Goods; US DOT- US Department of Transportation; WHMIS – Canadian Workplace Material Information System.

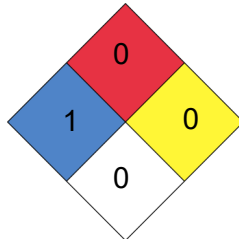
HMIS



Personal Protection

(*) - Chronic effects

NFPA



Caution: HMIS[®] ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not be construed as guaranteeing any specific property of the product.

Version 1.0:

Revision Date: 24Mar26