Safety Data Sheet

AIRPREP Elution Buffer Product Family

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830; issue date 01/5/2023; version 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	:	Mixture
Product name	:	AIRPREP Products- AC08100P, AC08100T, AC08200P-10, AC08200T-10
Product group	:	Trade product
UFI	:	NA
Other means of identification	:	AC08100P Filter and Elution Kit – PBS AC08100T Filter and Elution Kit – Tris AC08200P Elution Buffer – PBS AC08200T Elution Buffer - Tris AC08200P-10 Elution Buffer - PBS AC08200T-10 Elution Buffer – Tris ACD210 Field Bundle – PBS ACD210 Field Bundle – Tris ACD210 Starter Pack – PBS ACD210 Starter Pack - Tris

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

1.2.1. Relevant identified uses

Buffered elution fluid

1.2.2. Uses advised against

No additional information available

InnovaPrep LLC
132 E. Main St.
64742 Drexel, MO - USA
T 833-833-3763

1.4. Emergency telephone number

Emergency number 833-833-3763 : 24/7

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Gases under pressure : Compressed gas H280

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS04

Signal word (CLP)	:	Warning
Hazard statements (CLP)	:	H280 - Contains gas under pressure; may explode if heated.
Precautionary statements (CLP)	:	P410+P403 - Protect from sunlight. Store in a well-ventilated place.

2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Carbon Dioxide (as compressed gas)	CAS-No.: 124-38-9 EC-No.: 204-696-9	30 – 60	Press. Gas (Comp.), H280

SECTION 4: First Aid measures

4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.

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 minor respiratory irritation.

Symptoms/effects after skin contact : May cause minor skin irritation.

Symptoms/effects after eye contact : Direct contact with eyes is unlikely to be irritating.

Symptoms/effects after ingestion : May cause minor 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 : Foam. Carbon dioxide. Dry powder. Water spray.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable.

Explosion hazard : Contains gas under pressure; may explode if heated.

Reactivity in case of fire : None known.

Hazardous decomposition products in case of fire : No information available.

5.3. Advice for firefighters

Precautionary measures fire	:	Eliminate all ignition sources if safe to do so.
Firefighting instructions	:	Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not dispose of fire-fighting water in the environment.
Protection during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

6.1.1. For non-emergency personnel

Protective equipment	:	Wear Protective equipment as described in Section 8.
Emergency procedures	:	Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	:	Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment	:	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Prevent entry to sewers and public waters.
Methods for cleaning up	:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

See Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Do not handle until all safety precautions have been read and understood. Keep container closed when not in use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Store in original container. Keep container closed when not in use. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store in a dry, cool and well-ventilated place.
Incompatible materials	:	No data available.

7.3. Specific end use(s)

Buffered elution fluid

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

Carbon Dioxide (as compressed gas) (124-38-9)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	9000 mg/m³
IOEL TWA [ppm]	5000 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	9000 mg/m³
MAK (OEL TWA) [ppm]	5000 ppm
MAK (OEL STEL)	18000 mg/m³
MAK (OEL STEL) [ppm]	10000 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	9131 mg/m³
OEL TWA [ppm]	5000 ppm
OEL STEL	54784 mg/m³
OEL STEL [ppm]	30000 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	9000 mg/m³
OEL TWA [ppm]	5000 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA) [1]	9000 mg/m³
GVI (OEL TWA) [2]	5000 ppm
Cyprus - Occupational Exposure Limits	
OEL TWA	9000 mg/m³
OEL TWA [ppm]	5000 ppm
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	9000 mg/m³
Denmark - Occupational Exposure Limits	
OEL TWA [1]	9000 mg/m³
OEL TWA [2]	5000 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	9000 mg/m³
OEL TWA [ppm]	5000 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	9100 mg/m³
HTP (OEL TWA) [2]	5000 ppm

Carbon Dioxide (as compressed gas) (124-38-9)	
France - Occupational Exposure Limits	
VME (OEL TWA)	9000 mg/m³ (indicative limit)
VME (OEL TWA) [ppm]	5000 ppm (indicative limit)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	9100 mg/m³
AGW (OEL TWA) [2]	5000 ppm
Gibraltar - Occupational Exposure Limits	
OEL TWA	9000 mg/m³
OEL TWA [ppm]	5000 ppm
Greece - Occupational Exposure Limits	
OEL TWA	9000 mg/m³
OEL TWA [ppm]	5000 ppm
OEL STEL	54000 mg/m³
OEL STEL [ppm]	5000 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	9000 mg/m³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	9000 mg/m³
OEL TWA [2]	5000 ppm
OEL STEL	27000 mg/m³
OEL STEL [ppm]	15000 ppm
Italy - Occupational Exposure Limits	
OEL TWA	9000 mg/m³
OEL TWA [ppm]	5000 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	9000 mg/m³
OEL TWA [ppm]	5000 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	9000 mg/m³ (Carbon dioxide is often regarded as an indicator of work room condition, where air pollution is due to presence of people)
IPRV (OEL TWA) [ppm]	5000 ppm (Carbon dioxide is often regarded as an indicator of work room condition, where air pollution is due to presence of people)
Luxembourg - Occupational Exposure Limits	
OEL TWA	9000 mg/m³
OEL TWA [ppm]	5000 ppm
Malta - Occupational Exposure Limits	
OEL TWA	9000 mg/m³
OEL TWA [ppm]	5000 ppm

Carbon Dioxide (as compressed gas) (124-38-9)	
Netherlands - Occupational Exposure Limits	
MAC-TGG (OEL TWA)	9000 mg/m³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	9000 mg/m³
NDSCh (OEL STEL)	27000 mg/m³
Portugal - Occupational Exposure Limits	
OEL TWA	9000 mg/m³ (indicative limit value)
OEL TWA [ppm]	5000 ppm (indicative limit value)
OEL STEL [ppm]	30000 ppm
Romania - Occupational Exposure Limits	
OEL TWA	9000 mg/m³
OEL TWA [ppm]	5000 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA) [1]	9000 mg/m³
NPHV (OEL TWA) [2]	5000 ppm
Slovenia - Occupational Exposure Limits	
OEL TWA	9000 mg/m³
OEL TWA [ppm]	5000 ppm
OEL STEL	18000 mg/m³
OEL STEL [ppm]	10000 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	9150 mg/m³ (indicative limit value)
VLA-ED (OEL TWA) [2]	5000 ppm (indicative limit value)
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	9000 mg/m³
NGV (OEL TWA) [ppm]	5000 ppm
KTV (OEL STEL)	18000 mg/m³
KTV (OEL STEL) [ppm]	10000 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	9150 mg/m³
WEL TWA (OEL TWA) [2]	5000 ppm
WEL STEL (OEL STEL)	27400 mg/m³
WEL STEL (OEL STEL) [ppm]	15000 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	9000 mg/m³
Grenseverdi (OEL TWA) [2]	5000 ppm
Korttidsverdi (OEL STEL)	11250 mg/m³ (value calculated)
Korttidsverdi (OEL STEL) [ppm]	6250 ppm (value calculated)

Carbon Dioxide (as compressed gas) (124-38-9)	
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	9000 mg/m³
MAK (OEL TWA) [2]	5000 ppm
Turkey - Occupational Exposure Limits	
OEL TWA	9000 mg/m³
OEL TWA [ppm]	5000 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	5000 ppm
ACGIH OEL STEL [ppm]	30000 ppm

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas.

8.2.2. Personal protection equipment

Personal protective equipment:
Gloves. Protective goggles.

Personal protective equipment symbol(s):

8.2.2.1. Eye and face protection

Eye protection:
Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Eye protection should be classified under EN 167(EU)

8.2.2.2. Skin protection

Skin and body protection:
Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. [EN 14605:2005 and EN 13034:2005]

Hand protection:
Use gloves appropriate to the work environment. Gloves should be classified under Standard EN 374 or ASTM F1296.

8.2.2.3. Respiratory protection

Respiratory protection:
Where vapour, mist, or dust exceed PELs or other applicable OELs, use the European Standard EN 529:2005 approved dust/particulate respiratory protective equipment.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Colorless liquid.
Colour	:	Colourless.
Odour	:	Odourless.
Odour threshold	:	No data available
pH	:	5 – 6
Relative evaporation rate (butylacetate=1)	:	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)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

None under normal use.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Carbon Dioxide (as compressed gas) (124-38-9)	
LD50 oral rat	study technically not feasible
LD50 dermal rat	study technically not feasible
LC50 Inhalation - Rat	not classified

Skin corrosion/irritation : Not classified
pH: 5 – 6
Serious eye damage/irritation : Not classified
pH: 5 – 6
Respiratory or skin sensitisation : 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

AirPrep Products- AC08100P, AC08100T, AC08200P, AC08200T	
Viscosity, kinematic	Not applicable

11.2. Information on other hazards

Endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No data available.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

12.7. Other adverse effects

Other adverse effects : No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without a specific permit.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number

UN-No. (ADR)	: UN 1950
UN-No. (IMDG)	: UN 1950
UN-No. (IATA)	: UN 1950
UN-No. (ADN)	: UN 1950
UN-No. (RID)	: UN 1950

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: AEROSOLS
Proper Shipping Name (IMDG)	: AEROSOLS
Proper Shipping Name (IATA)	: Aerosols, non-flammable
Proper Shipping Name (ADN)	: AEROSOLS
Proper Shipping Name (RID)	: AEROSOLS
Transport document description (ADR)	: UN 1950 AEROSOLS, 2.2, (E)
Transport document description (IMDG)	: UN 1950 AEROSOLS, 2.2
Transport document description (IATA)	: UN 1950 Aerosols, non-flammable, 2.2
Transport document description (ADN)	: UN 1950 AEROSOLS, 2.2
Transport document description (RID)	: UN 1950 AEROSOLS, 2.2

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 2.2

Danger labels (ADR) : 2.2

:

IMDG

Transport hazard class(es) (IMDG) : 2.2
Danger labels (IMDG) : 2.2

:

IATA

Transport hazard class(es) (IATA) : 2.2
Danger labels (IATA) : 2.2

:

ADN

Transport hazard class(es) (ADN) : 2.2
Danger labels (ADN) : 2.2

:

RID

Transport hazard class(es) (RID) : 2.2
Danger labels (RID) : 2.2

:

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : 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

Classification code (ADR) : 5A
Special provisions (ADR) : 190, 327, 344, 625
Limited quantities (ADR) : 1l
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P207, LP200
Special packing provisions (ADR) : PP87, RR6, L2

Mixed packing provisions (ADR)	:	MP9
Transport category (ADR)	:	3
Special provisions for carriage - Packages (ADR)	:	V14
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV9, CV12
Tunnel restriction code (ADR)	:	E

Transport by sea (IMDG)

Special provisions (IMDG)	:	63, 190, 277, 327, 344, 381, 959
Packing instructions (IMDG)	:	P207, LP200
Special packing provisions (IMDG)	:	PP87, L2
EmS-No. (Fire)	:	F-D
EmS-No. (Spillage)	:	S-U
Stowage category (IMDG)	:	None
Stowage and handling (IMDG)	:	SW1, SW22
Segregation (IMDG)	:	SG69

Air transport (IATA)

PCA Excepted quantities (IATA)	:	E0
PCA Limited quantities (IATA)	:	Y203
PCA limited quantity max net quantity (IATA)	:	30kgG
PCA packing instructions (IATA)	:	203
PCA max net quantity (IATA)	:	75kg
CAO packing instructions (IATA)	:	203
CAO max net quantity (IATA)	:	150kg
Special provisions (IATA)	:	A98, A145, A167, A802
ERG code (IATA)	:	2L

Inland waterway transport

Classification code (ADN)	:	5A
Special provisions (ADN)	:	190, 327, 344, 625
Limited quantities (ADN)	:	1 L
Excepted quantities (ADN)	:	E0
Equipment required (ADN)	:	PP
Ventilation (ADN)	:	VE04
Number of blue cones/lights (ADN)	:	0

Rail transport

Classification code (RID)	:	5A
Special provisions (RID)	:	190, 327, 344, 625
Limited quantities (RID)	:	1L
Excepted quantities (RID)	:	E0
Packing instructions (RID)	:	P207, LP200
Special packing provisions (RID)	:	PP87, RR6, L2
Mixed packing provisions (RID)	:	MP9
Transport category (RID)	:	3
Special provisions for carriage – Packages (RID)	:	W14
Special provisions for carriage - Loading, unloading and handling (RID)	:	CW9, CW12
Colis express (express parcels) (RID)	:	CE2
Hazard identification number (RID)	:	20

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.
Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

All chemical substances in this product are listed as “Active” in the EPA (Environmental Protection Agency) “TSCA Inventory Notification (Active-Inactive) Requirements Rule” (“the Final Rule”) of Feb 2019, as amended Feb 2021 or are otherwise exempt, or regulated by other agencies such as FDA or FIFRA

Germany

Water hazard class (WGK)	:	WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV)	:	Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen	:	None of the components are listed
SZW-lijst van mutagene stoffen	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	:	None of the components are listed

Switzerland

Storage class (LK)	:	LK 2 - Liquefied or pressurized gases

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:
Revision 2.0: Minor format changes.

Other information : Author: SS.

SDS Prepared for InnovaPrep LLC by:
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Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Not hazardous	Calculation method

Safety Data Sheet (SDS), EU

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 therefore be construed as guaranteeing any specific property of the product.