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# **SECTION 1: Identification**

# 1.1. Identification

Product form	: Substance
Substance name	: ChromaLINK <sup>®</sup> Biotin Protein Labeling Kit
Product code	: B-9007-105K
Kit component	: ChromaLINK <sup>®</sup> Biotin

# 1.2. Recommended use and restrictions on use

Use of the substance/mixture

: Laboratory chemicals

# 1.3. Supplier

# Manufacturer

Vector Laboratories, Inc. 6737 Mowry Ave Newark, CA 94560 U.S.A T (650) 697-3600 - F (650) 697-0339 customerservice@vectorlabs.com

# 1.4. Emergency telephone number

Emergency number

: US only (800) 227-6666 or outside of the US +1 (650) 697-3600 (7:15 AM - 5:00 PM PST)

# SECTION 2: Hazard(s) identification

# 2.1. Classification of the substance or mixture

# GHS US classification

Combustible Dust

May form combustible dust concentrations in air

# 2.2. GHS Label elements, including precautionary statements

**GHS US labeling** 

Signal word (GHS US) Hazard statements (GHS US) : Warning : May form combustible dust concentrations in air

# 2.3. Other hazards which do not result in classification

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

Not applicable

# SECTION 3: Composition/Information on ingredients

# 3.1. Substances

Name

: ChromaLINK® Biotin (DMF Soluble)

Name	Product identifier	%
Chroma Link Biotin	CAS-No.: not	100
	assigned	

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The specific chemical\ component identities and/or the exact component percentages of this material may be withheld as trade secrets. This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

# 3.2. Mixtures

Not applicable

# **SECTION 4: First-aid measures**

# 4.1. Description of first aid measures

First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion

- Remove person to fresh air and keep comfortable for breathing.Wash skin with plenty of water.
- . Wash skin with pienty of water.
- : Rinse eyes with water as a precaution.
- : Call a poison center/doctor/physician if you feel unwell.

# 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

# 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures					
5.1. Suitable (and unsuitable) extinguishing media					
Suitable extinguishing media : Water spray. Dry powder. Foam.					
5.2. Specific hazards arising from the chemical					
Fire hazard Hazardous decomposition products in case of fire	<ul><li>May form combustible dust concentrations in air.</li><li>Toxic fumes may be released.</li></ul>				
5.3. Special protective equipment and precautions for fire-fighters					
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.				

# SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures				
6.1.1. For non-emergency personnel				
Emergency procedures	: Ventilate spillage area.			
6.1.2. For emergency responders				
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".			
6.2. Environmental precautions				
<b>.</b>				

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	:	Mechanically recover the product.
Other information	:	Dispose of materials or solid residues at an authorized site.

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# 6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid dust formation.			
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.			
7.2. Conditions for safe storage, including any incompatibilities				
Storage conditions Storage temperature	<ul> <li>Store in a well-ventilated place. Keep cool.</li> <li>&lt; 50 °F</li> </ul>			
SECTION 8: Exposure controls/pe	rsonal protection			
8.1. Control parameters				
ChromaLINK <sup>®</sup> Biotin				
No additional information available				
Chroma Link Biotin (not assigned)				
No additional information available				
8.2. Appropriate engineering contro	Is			
Appropriate engineering controls Environmental exposure controls	<ul><li>Ensure good ventilation of the work station.</li><li>Avoid release to the environment.</li></ul>			
8.3. Individual protection measures/Personal protective equipment				
Hand protection:				
Protective gloves				
Eye protection:				
Safety glasses				

Skin and body protection:

Wear suitable protective clothing

# **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

# Personal protective equipment symbol(s):



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# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state		Solid
Color		No data available.
Odor		No data available.
Odor threshold	÷	No data available
pH	÷	No data available
Melting point		No data available
Freezing point	:	Not applicable
Boiling point	÷	No data available
Flash point	:	Not applicable
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapor pressure	:	No data available
Relative vapor 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
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	No data available
Explosion limits	:	Not applicable
Explosive properties	:	No data available
Oxidizing properties	:	No data available

# 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The 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

Avoid dust formation. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

# 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)	
Acute toxicity (dermal)	

Not classifiedNot classified

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Acute toxicity (inhalation)	:	Not classified
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
Viscosity, kinematic	:	Not applicable

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

# 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. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

# 13.1. Disposal methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport informa	tion		
In accordance with DOT / IMDG / IATA			
14.1. UN number			
Not regulated for transport			
14.2. UN proper shipping name			
Proper Shipping Name (DOT) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul><li>Not applicable</li><li>Not applicable</li><li>Not applicable</li></ul>		
14.3. Transport hazard class(es)			
<b>DOT</b> Transport hazard class(es) (DOT)	: Not applicable		
IMDG Transport hazard class(es) (IMDG)	: Not applicable		
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# IATA

Transport hazard class(es) (IATA)

# 14.4. Packing group

Packing group (DOT) Packing group (IMDG) Packing group (IATA)

# 14.5. Environmental hazards

14.6. Special precautions for user

Other information

: No supplementary information available.

: Not applicable

: Not applicable

Not applicable

Not applicable

:

# DOT

No data available

IMDG

No data available

# IATA

No data available

# 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. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Chroma Link Biotin	CAS-No. not assigned	100%
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# 15.2. International regulations

No additional information available

# 15.3. US State regulations

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**

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

# Custom\_SDS\_USA\_VECTOR

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.

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# **SECTION 1: Identification**

# 1.1. Identification

Product form	: Mixture
Product name	: ChromaLINK <sup>®</sup> Biotin Protein Labeling Kit
Product code	: B-9007-105K
Kit component	: 10X Modification Buffer

# 1.2. Recommended use and restrictions on use

Use of the substance/mixture

: Laboratory chemicals

# 1.3. Supplier

# Manufacturer

Vector Laboratories, Inc. 6737 Mowry Ave Newark, CA 94560 U.S.A T (650) 697-3600 - F (650) 697-0339 customerservice@vectorlabs.com

# 1.4. Emergency telephone number

Emergency number

: US only (800) 227-6666 or outside of the US +1 (650) 697-3600 (7:15 AM - 5:00 PM PST)

# SECTION 2: Hazard(s) identification

# 2.1. Classification of the substance or mixture

# GHS US classification

Not classified

# 2.2. GHS Label elements, including precautionary statements

# **GHS US labeling**

No labeling applicable

# 2.3. Other hazards which do not result in classification

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

Not applicable

# **SECTION 3: Composition/Information on ingredients**

# 3.1. Substances

Not applicable

# 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

# **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.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.

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First-aid measures after ingestion

: Call a poison center/doctor/physician if you feel unwell.

# 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

# 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

# **SECTION 5: Fire-fighting measures**

Suitable extinguishing media

: Water spray. Dry powder. Foam. Carbon dioxide.

# 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

# 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures					
6.1. Personal precautions, protective equipment and emergency procedures					
6.1.1. For non-emergency personnel					
Emergency procedures	: Ventilate spillage area.				
6.1.2. For emergency responders					
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".				
6.2. Environmental precautions					
Avoid release to the environment.					
6.3. Methods and material for containment and cleaning up					
Methods for cleaning up	: Take up liquid spill into absorbent material.				
Other information	: 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					
Precautions for safe handling Hygiene measures	<ul> <li>Ensure good ventilation of the work station. Wear personal protective equipment.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>				
7.2. Conditions for safe storage, including any incompatibilities					

Storage conditions

: Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

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# **10X Modification Buffer**

No additional information available

# 8.2. Appropriate engineering controls

Appropriate engineering controls	
Environmental exposure controls	

Ensure good ventilation of the work station.Avoid release to the environment.

# 8.3. Individual protection measures/Personal protective equipment

and protection:		
rotective gloves		
ye protection:		
afety glasses		
kin and body protection:		
ear suitable protective clothing		
Respiratory protection:		
case of insufficient ventilation, wear suitable respiratory equipment		

# Personal protective equipment symbol(s):



# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

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

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# 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The 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

No additional information available

# **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

A such a facility (a well)	• Not clossified
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
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
Viscosity, kinematic	: No data available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

# 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

No additional information available

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# 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
In accordance with DOT / IMDG / IATA	
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT)	: Not applicable
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (DOT)	: Not applicable
Packing group (IMDG) Packing group (IATA)	: Not applicable : Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT No data available	
IMDG No data available	
1474	

IATA No data available

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

Not applicable

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# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

# 15.2. International regulations

No additional information available

# 15.3. US State regulations

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**

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

# Custom\_SDS\_USA\_VECTOR

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.

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# **SECTION 1: Identification**

# 1.1. Identification

Product form	: Mixture
Product name	: ChromaLINK <sup>®</sup> Biotin Protein Labeling Kit
Product code	: B-9007-105K
Kit component	: Bovine IgG Control

# 1.2. Recommended use and restrictions on use

Use of the substance/mixture

: Laboratory chemicals

# 1.3. Supplier

# Manufacturer

Vector Laboratories, Inc. 6737 Mowry Ave Newark, CA 94560 U.S.A T (650) 697-3600 - F (650) 697-0339 customerservice@vectorlabs.com

# 1.4. Emergency telephone number

Emergency number

: US only (800) 227-6666 or outside of the US +1 (650) 697-3600 (7:15 AM - 5:00 PM PST)

# SECTION 2: Hazard(s) identification

# 2.1. Classification of the substance or mixture

# GHS US classification

Not classified

# 2.2. GHS Label elements, including precautionary statements

# **GHS US labeling**

No labeling applicable

# 2.3. Other hazards which do not result in classification

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

Not applicable

# **SECTION 3: Composition/Information on ingredients**

# 3.1. Substances

Not applicable

# 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

# **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.
First-aid measures after skin contact	:	Wash skin with plenty of water.
First-aid measures after eye contact	:	Rinse eyes with water as a precaution.

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First-aid measures after ingestion

: Call a poison center/doctor/physician if you feel unwell.

# 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

# 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

# **SECTION 5: Fire-fighting measures**

5.1. Suitable (and unsuitable	e) extinguishing media
-------------------------------	------------------------

Suitable extinguishing media

: Water spray. Dry powder. Foam. Carbon dioxide.

# 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

# 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containmen	t and cleaning up	
Methods for cleaning up	: Take up liquid spill into absorbent material.	
Other information	: 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		
Precautions for safe handling Hygiene measures	<ul> <li>Ensure good ventilation of the work station. Wear personal protective equipment.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>	
7.2. Conditions for safe storage, including any incompatibilities		

Storage conditions

: Store in a well-ventilated place. Keep cool.

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

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# **Bovine IgG Control**

No additional information available

# 8.2. Appropriate engineering controls

Appropriate engineering controls	
Environmental exposure controls	

Ensure good ventilation of the work station.Avoid release to the environment.

# 8.3. Individual protection measures/Personal protective equipment

# Hand protection: Protective gloves Eye protection: Safety glasses Skin and body protection: Wear suitable protective clothing Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

# Personal protective equipment symbol(s):



# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state Color Odor Odor threshold pH Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Vapor pressure Relative vapor density at 20 °C Relative density Solubility Partition coefficient p.octapol/water (Log Pow)	<ul> <li>Liquid</li> <li>Colorless</li> <li>No data available</li> </ul>
Relative vapor density at 20 °C Relative density	: No data available : No data available
Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature Decomposition temperature Viscosity, kinematic Viscosity, dynamic Explosion limits Explosive properties	<ul> <li>No data available</li> </ul>
Oxidizing properties	: No data available

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# 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The 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

No additional information available

# **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) Acute toxicity (dermal) Acute toxicity (inhalation) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard	<ul> <li>Not classified</li> </ul>
	: Not classified : No data available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

# 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

No additional information available

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# 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
In accordance with DOT / IMDG / IATA	
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	: Not applicable : Not applicable
14.3. Transport hazard class(es)	. Her applicable
<b>DOT</b> Transport hazard class(es) (DOT)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
	· Net evelopela
Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (DOT) Packing group (IMDG)	: Not applicable : Not applicable
Packing group (IATA)	: Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
<b>DOT</b> No data available	
IMDG No data available	

IATA No data available

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

Not applicable

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# SECTION 15: Regulatory information

# 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

# 15.2. International regulations

No additional information available

# 15.3. US State regulations

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**

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

# Custom\_SDS\_USA\_VECTOR

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.

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# **SECTION 1: Identification**

# 1.1. Identification

Product form	: Mixture
Product name	: ChromaLINK <sup>®</sup> Biotin Protein Labeling Kit
Product code	: B-9007-105K
Kit component	: Biotinylated Bovine IgG Control

# 1.2. Recommended use and restrictions on use

Use of the substance/mixture

: Laboratory chemicals

# 1.3. Supplier

# Manufacturer

Vector Laboratories, Inc. 6737 Mowry Ave Newark, CA 94560 U.S.A T (650) 697-3600 - F (650) 697-0339 customerservice@vectorlabs.com

# 1.4. Emergency telephone number

Emergency number

: US only (800) 227-6666 or outside of the US +1 (650) 697-3600 (7:15 AM - 5:00 PM PST)

# SECTION 2: Hazard(s) identification

# 2.1. Classification of the substance or mixture

# GHS US classification

Not classified

# 2.2. GHS Label elements, including precautionary statements

# **GHS US labeling**

No labeling applicable

# 2.3. Other hazards which do not result in classification

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

Not applicable

# **SECTION 3: Composition/Information on ingredients**

# 3.1. Substances

Not applicable

# 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

# **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.
First-aid measures after skin contact	:	Wash skin with plenty of water.
First-aid measures after eye contact	:	Rinse eyes with water as a precaution.

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First-aid measures after ingestion

: Call a poison center/doctor/physician if you feel unwell.

# 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

# 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

# **SECTION 5: Fire-fighting measures**

Suitable extinguishing media

: Water spray. Dry powder. Foam. Carbon dioxide.

# 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

# 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective e	equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containing	nent and cleaning up	
Methods for cleaning up	: Take up liquid spill into absorbent material.	
Other information	: 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		
Precautions for safe handling Hygiene measures	<ul> <li>Ensure good ventilation of the work station. Wear personal protective equipment.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>	
7.2. Conditions for safe storage, including any incompatibilities		

Storage conditions

: Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

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# **Biotinylated Bovine IgG Control**

No additional information available

# 8.2. Appropriate engineering controls

Appropriate engineering controls	
Environmental exposure controls	

Ensure good ventilation of the work station.Avoid release to the environment.

# 8.3. Individual protection measures/Personal protective equipment

# Hand protection: Protective gloves Eye protection: Safety glasses Skin and body protection: Wear suitable protective clothing Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

# Personal protective equipment symbol(s):



# **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
рН	:	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)	:	Not applicable.
Vapor pressure	:	No data available
Relative vapor 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
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

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# 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The 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

No additional information available

# **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) Acute toxicity (dermal)	: Not classified : Not classified
Acute toxicity (inhalation)	: Not classified
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
Viscosity, kinematic	: No data available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

# 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

No additional information available

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# 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	S
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
In accordance with DOT / IMDG / IATA	
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	: Not applicable : Not applicable
14.3. Transport hazard class(es)	
DOT	
Transport hazard class(es) (DOT)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
IATA Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (DOT) Packing group (IMDG)	: Not applicable : Not applicable
Packing group (IATA)	: Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
<b>DOT</b> No data available	
IMDG No data available	

IATA No data available

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

Not applicable

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# SECTION 15: Regulatory information

# 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

# 15.2. International regulations

No additional information available

# 15.3. US State regulations

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**

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

# Custom\_SDS\_USA\_VECTOR

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.

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# **SECTION 1: Identification**

# 1.1. Identification

Product form	: Mixture
Product name	: ChromaLINK <sup>®</sup> Biotin Protein Labeling Kit
Product code	: B-9007-105K
Kit component	: 0.5 mL Zeba™ Column

# 1.2. Recommended use and restrictions on use

Use of the substance/mixture

: Laboratory chemicals

# 1.3. Supplier

# Manufacturer

Vector Laboratories, Inc. 6737 Mowry Ave Newark, CA 94560 U.S.A T (650) 697-3600 - F (650) 697-0339 customerservice@vectorlabs.com

# 1.4. Emergency telephone number

Emergency number

: US only (800) 227-6666 or outside of the US +1 (650) 697-3600 (7:15 AM - 5:00 PM PST)

# SECTION 2: Hazard(s) identification

# 2.1. Classification of the substance or mixture

# GHS US classification

Not classified

# 2.2. GHS Label elements, including precautionary statements

# **GHS US labeling**

No labeling applicable

# 2.3. Other hazards which do not result in classification

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

Not applicable

# **SECTION 3: Composition/Information on ingredients**

# 3.1. Substances

Not applicable

# 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

# **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.
First-aid measures after skin contact	:	Wash skin with plenty of water.
First-aid measures after eye contact	:	Rinse eyes with water as a precaution.

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First-aid measures after ingestion

: Call a poison center/doctor/physician if you feel unwell.

# 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

# 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

# **SECTION 5: Fire-fighting measures**

Suitable extinguishing media

: Water spray. Dry powder. Foam. Carbon dioxide.

# 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

# 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
6.1.1. For non-emergency personnel				
Emergency procedures	: Ventilate spillage area.			
6.1.2. For emergency responders				
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".			
6.2. Environmental precautions				
Avoid release to the environment.				
6.3. Methods and material for containment	t and cleaning up			
Methods for cleaning up	: Take up liquid spill into absorbent material.			
Other information	: 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					
Precautions for safe handling Hygiene measures	<ul> <li>Ensure good ventilation of the work station. Wear personal protective equipment.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>				
7.2. Conditions for safe storage, including any incompatibilities					

Storage conditions

: Store in a well-ventilated place. Keep cool.

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

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# 0.5 mL Zeba™ Column

No additional information available

# 8.2. Appropriate engineering controls

Appropriate engineering controls	
Environmental exposure controls	

Ensure good ventilation of the work station.Avoid release to the environment.

# 8.3. Individual protection measures/Personal protective equipment

# Hand protection: Protective gloves Eye protection: Safety glasses Skin and body protection: Wear suitable protective clothing Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

# Personal protective equipment symbol(s):



# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state Color Odor Odor threshold pH Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Vapor pressure Relative vapor density at 20 °C Relative density Solubility Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature	Liquid No data available No data available No data available No data available Not applicable No data available No data available No data available Not applicable. No data available No data available
Solubility Partition coefficient n-octanol/water (Log Pow)	 No data available

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# 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The 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

No additional information available

# **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

A such a based of the (second)	· Not aloogified
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
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
Viscosity, kinematic	: No data available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

# 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

No additional information available

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# 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
In accordance with DOT / IMDG / IATA	
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT)	: Not applicable
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (DOT)	: Not applicable
Packing group (IMDG) Packing group (IATA)	: Not applicable : Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT No data available	
IMDG No data available	
1474	

IATA No data available

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

Not applicable

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012) Issue date: 09/28/2022 Version: 01



# SECTION 15: Regulatory information

# 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

# 15.2. International regulations

No additional information available

# 15.3. US State regulations

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**

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

# Custom\_SDS\_USA\_VECTOR

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.

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# **SECTION 1: Identification**

# 1.1. Identification

Product form	: Substance
Product name	: ChromaLINK <sup>®</sup> Biotin Protein Labeling Kit
Product code	: B-9007-105K
Kit component	: Anhydrous DMF

# 1.2. Recommended use and restrictions on use

Use of the substance/mixture

: Laboratory chemicals

# 1.3. Supplier

Vector Laboratories, Inc. 6737 Mowry Ave Newark, CA 94560 U.S.A T (650) 697-3600 - F (650) 697-0339 customerservice@vectorlabs.com

# 1.4. Emergency telephone number

Emergency number

: US only (800) 227-6666 or outside of the US +1 (650) 697-3600 (7:15 AM - 5:00 PM PST)

# SECTION 2: Hazard(s) identification

# 2.1. Classification of the substance or mixture

# **GHS US classification**

Flammable liquids Category 3 Acute toxicity (inhalation:dust,mist) Category 4 Serious eye damage/eye irritation Category 2 Carcinogenicity Category 1B

# 2.2. GHS Label elements, including precautionary statements

# **GHS US labeling**

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US)

Precautionary statements (GHS US)

Flammable liquid and vapor Harmful if inhaled Causes serious eye irritation May cause cancer



- Causes serious eye irritation Harmful if inhaled May cause cancer : Obtain special instructions before use.
- Obtain special instructions before use.
   Do not handle until all safety precautions have been read and understood.
   Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
   Keep container tightly closed.
   Ground/Bond container and receiving equipment.
   Use explosion-proof electrical equipment.
   Use only non-sparking tools.
   Take precautionary measures against static discharge.
- Avoid breathing mist, spray, vapors.
- Wash hands, forearms and face thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Wear eye protection.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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If inhaled: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use ABC-powder, alcohol resistant foam, carbon dioxide (CO2), dry extinguishing powder, foam to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

# 2.3. Other hazards which do not result in classification

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Com	position/Information	on ingredients

# 3.1. Substances

Name	Product identifier	%
Dimethylformamide	CAS-No.: 68-12-2	100

The specific chemical\ component identities and/or the exact component percentages of this material may be withheld as trade secrets.

This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

# 3.2. Mixtures

Not applicable

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	<ul> <li>Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.</li> </ul>
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
First-aid measures after eye contact	<ul> <li>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.</li> </ul>
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.

# 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after eye contact

: Eye irritation.

# 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTI	ON 5:	Fire-fi	ahtinc	measures
			9	

# 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

: Water spray. Dry powder. Foam. Carbon dioxide.

# 5.2. Specific hazards arising from the chemical

Fire hazard	: Flammable liquid and vapor.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

# 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures	

# 6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel	
Emergency procedures	: No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing dust/fume/gas/mist/vapors/spray.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: 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	
Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

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# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

Anhydrous DMF		
USA - ACGIH - Occupational Exposure Limits		
Local name	Dimethylformamide	
ACGIH OEL TWA [ppm]	5 ppm	
Remark (ACGIH)	TLV® Basis: Liver dam; eye & URT irr. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI	
Regulatory reference	ACGIH 2022	
USA - ACGIH - Biological Exposure Indices		
Local name	N,N-DIMETHYLFORMAMIDE (DMF)	
BEI	30 mg/l Parameter: Total N-Methylformamide - Medium: urine - Sampling time: End of shift 30 mg/l Parameter: N-Acetyl-S-(N-methylcarbamoyl) cysteine - Medium: urine - Sampling time: End of shift at end of workweek	
Remark	Total N-Methylformamide represents the sum of N-Methylformamide and N-(Hydroxymethyl)-N- Methylformamide	
Regulatory reference	ACGIH 2022	
USA - OSHA - Occupational Exposure Limits		
Local name	Dimethylformamide	
OSHA PEL TWA [1]	30 mg/m <sup>3</sup>	
OSHA PEL TWA [2]	10 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	

# 8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls : Ensure good ventilation of the work station.: Avoid release to the environment.

# 8.3. Individual protection measures/Personal protective equipment

Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
Wear respiratory protection.	

Personal protective equipment symbol(s):



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# 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
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 307 °F
Flash point	: 136 °F
Relative evaporation rate (butyl acetate=1)	: 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	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

# 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Flammable liquid and vapor.

# 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

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

# 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)
Acute toxicity (dermal)

Not classifiedNot classified

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Acute toxicity (inhalation)	: Harmful if inhaled.
Anhydrous DMF	
ATE US (dust, mist)	1.502 mg/l/4h
Dimethylformamide (68-12-2)	
LD50 oral rat	3010 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 2480 - 3650
LD50 dermal rat	> 3160 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.85 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
ATE US (oral)	3010 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	<ul> <li>Not classified</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> <li>May cause cancer.</li> </ul>
Dimethylformamide (68-12-2)	
IARC group	2A - Probably carcinogenic to humans
Reproductive toxicity STOT-single exposure STOT-repeated exposure	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Dimethylformamide (68-12-2)	
LOAEL (oral,rat,90 days)	475 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (oral,rat,90 days)	238 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Remarks on results: not determinable due to absence of adverse toxic effects
Aspiration hazard Viscosity, kinematic Symptoms/effects after eye contact	<ul> <li>Not classified</li> <li>No data available</li> <li>Eye irritation.</li> </ul>

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Dimethylformamide (68-12-2)		
LC50 - Fish [1]	7100 mg/l Test organisms (species): Lepomis macrochirus	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna	
LOEC (chronic)	3000 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	1500 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic fish	> 102 mg/l Test organisms (species): Oryzias latipes Duration: '21 d'	

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# 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

Dimethylformamide (68-12-2)	
Partition coefficient n-octanol/water (Log Pow)	-0.87 Source: ICSC
12.4 Mobility in soil	

# 12.4. Mobility in soil

	Dimethylformamide (68-12-2)	
Mobility in soil 2.4 Source	ECHA	

# 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods Additional information	<ul><li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li><li>Flammable vapors may accumulate in the container.</li></ul>

: Flammable liquids, n.o.s. (CONTAINS : Dimethylformamide)

: Flammable liquid, n.o.s. (CONTAINS : Dimethylformamide)

: FLAMMABLE LIQUID, N.O.S. (CONTAINS : Dimethylformamide)

# SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

# 14.1. UN number

DOT NA No	
UN-No. (IMDG)	
UN-No. (IATA)	

# 14.2. UN proper shipping name

Proper Shipping Name (DOT) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)

# 14.3. Transport hazard class(es)

D	0	Г

Transport hazard class(es) (DOT) Hazard labels (DOT)



Transport hazard class(es) (IMDG) Hazard labels (IMDG)



: UN1993 : 1993 : 1993



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IATA

Transport hazard class(es) (IATA) Hazard labels (IATA)



: 111

: 111

: 111

14.4.	Packing	group

Packing group (DOT) Packing group (IMDG) Packing group (IATA)

# 14.5. Environmental hazards

Other information

# 14.6. Special precautions for user

# DOT

UN-No.(DOT)	: UN'	1993
DOT Special Provisions (49 CFR 172.102)	bulk flasl	- If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the c packaging requirements of 173.241 of this subchapter are applicable. If the material has a h point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this chapter are applicable.
		2 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief ices are authorized on DOT 57 portable tanks.
	IB3 (31) with C (1	- Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table or UN2672).
	T4 -	- 2.65 178.274(d)(2) Normal 178.275(d)(3)
	TP1 follo duri TP2 prov	I - The maximum degree of filling must not exceed the degree of filling determined by the owing: Degree of filling = $97 / 1 + a$ (tr - tf) Where: tr is the maximum mean bulk temperature ing transport, and tf is the temperature in degrees celsius of the liquid during filling. 29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used vided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous terials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203	
DOT Packaging Bulk (49 CFR 173.xxx)	: 242	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L	L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220	L
DOT Vessel Stowage Location		The material may be stowed "on deck" or "under deck" on a cargo vessel and on a senger vessel.
IMDG		
Special provision (IMDG)		a, 274, 955
Limited quantities (IMDG)	: 5 L	
Excepted quantities (IMDG)	· ⊑1	

: No supplementary information available.

	, ,
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS

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: S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER
: A
: E1
: Y344
: 10L
: 355

PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provision (IATA)	: A3
ERG code (IATA)	: 3L

# 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. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Dimethylformamide (68-12-2)		
Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)		
CERCLA RQ	100 lb	

# 15.2. International regulations

Dimethylformamide (68-12-2)
Listed on IARC (International Agency for Research on Cancer)

# 15.3. US State regulations

MARNING: This product can expose you to Dimethylformamide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
Dimethylformamide(68-12-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List

# **SECTION 16: Other information**

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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.

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# **SECTION 1: Identification**

# 1.1. Identification

Product form	: Mixture
Product name	: ChromaLINK <sup>®</sup> Biotin Protein Labeling Kit
Product code	: B-9007-105K
Kit component	: 10X PBS

# 1.2. Recommended use and restrictions on use

Use of the substance/mixture

: Laboratory chemicals

# 1.3. Supplier

Manufacturer Vector Laboratories, Inc. 6737 Mowry Ave Newark, CA 94560 U.S.A

U.S.A T (650) 697-3600 - F (650) 697-0339 customerservice@vectorlabs.com

# 1.4. Emergency telephone number

Emergency number

: US only (800) 227-6666 or outside of the US +1 (650) 697-3600 (7:15 AM - 5:00 PM PST)

# SECTION 2: Hazard(s) identification

# 2.1. Classification of the substance or mixture

# GHS US classification

Not classified

# 2.2. GHS Label elements, including precautionary statements

# **GHS US labeling**

No labeling applicable

# 2.3. Other hazards which do not result in classification

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

Not applicable

# **SECTION 3: Composition/Information on ingredients**

# 3.1. Substances

Not applicable

# 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

# **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.
First-aid measures after skin contact	:	Wash skin with plenty of water.
First-aid measures after eye contact	:	Rinse eyes with water as a precaution.

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First-aid measures after ingestion

: Call a poison center/doctor/physician if you feel unwell.

# 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

# 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

# **SECTION 5: Fire-fighting measures**

5.1. Suitable (and unsuitable	) extinguishing media
-------------------------------	-----------------------

Suitable extinguishing media

: Water spray. Dry powder. Foam. Carbon dioxide.

# 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

# 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measure	9S
6.1. Personal precautions, protective equi	pment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment	t and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
C. A. Defense as to other continue	

# 6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling Hygiene measures	<ul> <li>Ensure good ventilation of the work station. Wear personal protective equipment.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>		
7.2. Conditions for safe storage, including any incompatibilities			

Storage conditions

: Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

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# 10X PBS

No additional information available

# 8.2. Appropriate engineering controls

Appropriate engineering controls	
Environmental exposure controls	

Ensure good ventilation of the work station.Avoid release to the environment.

# 8.3. Individual protection measures/Personal protective equipment

Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Near suitable protective clothing	
Respiratory protection:	
n case of insufficient ventilation, wear suitable respiratory equipment	

# Personal protective equipment symbol(s):



# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

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

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# 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The 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

No additional information available

# **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) Acute toxicity (dermal) Acute toxicity (inhalation) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard	<ul> <li>Not classified</li> </ul>
Aspiration hazard Viscosity, kinematic	: Not classified : No data available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

# 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

No additional information available

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# 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	S
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
In accordance with DOT / IMDG / IATA	
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	: Not applicable : Not applicable
14.3. Transport hazard class(es)	
DOT	
Transport hazard class(es) (DOT)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
IATA Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (DOT) Packing group (IMDG)	: Not applicable : Not applicable
Packing group (IATA)	: Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
<b>DOT</b> No data available	
IMDG No data available	
1474	

IATA No data available

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

Not applicable

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012) Issue date: 09/28/2022 Version: 01



# SECTION 15: Regulatory information

# 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

# 15.2. International regulations

No additional information available

# 15.3. US State regulations

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**

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

# Custom\_SDS\_USA\_VECTOR

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