

CAMBRIDGE ISOTOPE LABORATORIES

PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Metabolomics QR	Metabolomics QReSS™ Kit (unlabeled)		
Catalog No:	MSK-QRESS-US-KI	IT		
Company:	50 Frontage Road	Andover, MA. 01810		
Telephone:	1-800-322-1174	International information 1-978-749-8000		
Emergency:	1-800-424-9300	International Emergency 1-703-741-5970		

HAZARDS IDENTIFICATION

Emergency Overview OSHA Hazards Irritant/Harmful GHS Classification(s) Skin irritation -Cat 2 Eye irritation -Cat 2A Specific target organ toxicity - single exposure -Cat 3

GHS Label elements, including precautionary statements



Signal word Warning

Hazard statement(s)

See individual Safety Data Sheets

COMPOSITION

Each kit contains:

Pictograms

MSK-QRESS1-US-1Metabolomics QReSS™ Standard Mix 1 UnlabeledMSK-QRESS2-US-1Metabolomics QReSS™ Standard Mix 2 Unlabeled



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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 5/28/2020 Revision date: 3/19/2024 Supersedes: 7/7/2021 Version: 2.1

SECTION 1: Identification

1.1. Identification Product form : Mixture Product name : Metabolomics QReSS™ Standard Mix 1 (unlabeled) Product code : MSK-QRESS1-US 1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier	
Cambridge Isotope Laboratories, Inc. 50 Frontage Rd 01810 ANDOVER, MA, 01810 USA T 1-800-322-1174 <u>cilsales@isotope.com</u> - <u>www.isotope.com</u>	
1.4. Emergency telephone number	
Emergency number	: 1-703-741-5970

Chemtrec 1-800-424-9300 24 hours

2.1. Classification of the substance of	or mixture		
GHS US classification			
Skin corrosion/irritation Category 2		H315	Causes skin irritation
Serious eye damage/eye irritation Category 2	2	H319	Causes serious eye irritation
Specific target organ toxicity – Single exposu Respiratory tract irritation Full text of H statements : see section 16	re, Category 3,	H335	May cause respiratory irritation
2.2. GHS Label elements, including p	recautionary state	ements	
GHS US labeling			
Hazard pictograms (GHS US)		>	
Signal word (GHS US)	: Warning		
Hazard statements (GHS US)	H319 - Ca	auses skin irritatio auses serious eye	e irritation
	 H335 - May cause respiratory irritation P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling. 		
Precautionary statements (GHS US)	P264 - W	ash hands, forea	U U
Precautionary statements (GHS US)	P264 - W P271 - Us P280 - W	ash hands, forea se only outdoors o ear protective glo	or in a well-ventilated area. ves/protective clothing/eye protection/face protection.
Precautionary statements (GHS US)	P264 - W P271 - Us P280 - W P302+P3	ash hands, forea se only outdoors o ear protective glo 52 - If on skin: Wa	or in a well-ventilated area.

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contact lenses, if present and easy to do. Continue rinsing.			
P312 - Call a poison center or doctor if you feel unwell.			
P321 - Specific treatment (see supplemental first aid instruction on this label).			
P332+P313 - If skin irritation occurs: Get medical advice/attention.			
P337+P313 - If eye irritation persists: Get medical advice/attention.			
P362+P364 - Take off contaminated clothing and wash it before reuse.			
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.			
P405 - Store locked up.			
P501 - 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: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
L-ALANINE UNLABELED	CAS-No.: 56-41-7	17.79	Not classified
CREATININE UNLABELED	CAS-No.: 60-27-5	17.79	Not classified
L-TRYPTOPHAN UNLABELED	CAS-No.: 73-22-3	17.79	Not classified
L-TYROSINE UNLABELED	CAS-No.: 60-18-4	17.79	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
L-PHENYLALANINE UNLABELED	CAS-No.: 63-91-2	17.79	Not classified
THYMINE UNLABELED	CAS-No.: 65-71-4	3.56	Not classified
ETHANOLAMINE HCI UNLABELED	CAS-No.: 141-43-5	1.78	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
HYPOXANTHINE UNLABELED	CAS-No.: 68-94-0	1.78	Not classified
1,4-BUTANEDIAMINE:2HCL UNLABELED	CAS-No.: 333-93-7	1.78	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
L-LEUCINE UNLABELED	CAS-No.: 61-90-5	0.89	Not classified
NICOTINAMIDE UNLABELED	CAS-No.: 98-92-0	0.89	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
GUANOSINE UNLABELED	CAS-No.: 118-00-3	0.36	Not classified

Full text of hazard classes and H-statements : see section 16

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SECTION 4: First-aid measures 4.1. Description of first aid measures First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area. First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. If not breathing give artificial respiration. Get medical advice/attention. First-aid measures after skin contact ÷ Wash with plenty of soap and water. and soap. Get immediate medical advice/attention. First-aid measures after eve contact · Rinse cautiously with water for several minutes. First-aid measures after ingestion Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention. 4.2. Most important symptoms and effects (acute and delayed) Potential Adverse human health effects and : This information is based on our current knowledge and is intended to describe the product for symptoms the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Symptoms/effects after inhalation · May be harmful if inhaled. May cause respiratory irritation. Symptoms/effects after skin contact Causes skin irritation. Symptoms/effects after eye contact Causes serious eye irritation. Symptoms/effects after ingestion : May be harmful if swallowed.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures				
5.1. Suitable (and unsuitable) extinguishing media				
Suitable extinguishing media	: Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).			
5.2. Specific hazards arising from the chemical				
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2).			
5.3. Special protective equipment and precautions for fire-fighters				
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.			

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Emergency procedures	: Avoid breathing vapors, mist, gas. Avoid dust formation.	
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

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up	 Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation. 	
6.4. Reference to other sections		

For further information refer to section 13.

SECTION 7: Handling and stor	age	
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	 Provide adequate ventilation to minimize dust and/or vapor concentrations. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice. 	
7.2. Conditions for safe storage, including any incompatibilities		

Technical measures	:	Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	:	Store in freezer (-20°C). Protect from light.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters				
Metabolomics QReSS™ Standard Mix 1 (unlabeled)				
No additional information available				
L-ALANINE UNLABELED (56-41-7)				
USA - ACGIH - Occupational Exposure Limits				
ACGIH chemical category No component of this product present at levels greater than or equal to 0.1% is ident carcinogen or potential carcinogen by ACGIH.				
CREATININE UNLABELED (60-27-5)				
No additional information available				
ETHANOLAMINE HCI UNLABELED (141-43-5)	ETHANOLAMINE HCI UNLABELED (141-43-5)			
USA - ACGIH - Occupational Exposure Limits				
ACGIH chemical category No component of this product present at levels greater than or equal to 0.1% is identifiat carcinogen or potential carcinogen by ACGIH.				
HYPOXANTHINE UNLABELED (68-94-0)				
No additional information available				
L-LEUCINE UNLABELED (61-90-5)				
USA - ACGIH - Occupational Exposure Limits				
ACGIH chemical category No component of this product present at levels greater than or equal to 0.1% is identifiat carcinogen or potential carcinogen by ACGIH.				
NICOTINAMIDE UNLABELED (98-92-0)				
No additional information available				

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L-TRYPTOPHAN UNLABELED (73-22-3)			
USA - ACGIH - Occupational Exposure Limits			
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.		
L-TYROSINE UNLABELED (60-18-4)			
USA - ACGIH - Occupational Exposure Limits			
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.		
THYMINE UNLABELED (65-71-4)			
No additional information available			
L-PHENYLALANINE UNLABELED (63-91-2)			
USA - ACGIH - Occupational Exposure Limits			
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.		
GUANOSINE UNLABELED (118-00-3)			
USA - ACGIH - Occupational Exposure Limits			
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.		
1,4-BUTANEDIAMINE:2HCL UNLABELED (33	3-93-7)		
No additional information available			
8.2. Appropriate engineering controls			
Appropriate engineering controls :	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.		
Environmental exposure controls :	Avoid release to the environment.		
8.3. Individual protection measures/Personal	protective equipment		
Personal protective equipment: Gloves. Protective clothing. Protective goggles. Self-con	ntained breathing apparatus.		
Materials for protective clothing:			
Wear suitable protective clothing and gloves			
Hand protection:			
Wear suitable protective clothing and gloves			
Eye protection:			
Wear eye protection. Chemical goggles or face shield with safety glasses			
Skin and body protection:			
Wear suitable protective clothing, gloves and eye/face	protection		
Respiratory protection:			
In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator			
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Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Color	: White to off-white
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
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

No additional information available

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

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10.5. Incompatible materials			
Strong oxidizing agents.			
10.6. Hazardous decomposition products			
Carbon oxides (CO, CO2).			
SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity (dermal) :	Not classified Not classified Not classified		
L-ALANINE UNLABELED (56-41-7)			
LD50 oral rat	> 5110 mg/kg male and female		
HYPOXANTHINE UNLABELED (68-94-0)			
LD50, intraperitoneal, mouse	750 mg/kg		
L-LEUCINE UNLABELED (61-90-5)			
LD50 oral rat	> 16000 mg/kg male and female		
NICOTINAMIDE UNLABELED (98-92-0)			
LD50 oral rat	3500 mg/kg		
ATE US (oral)	3500 mg/kg body weight		
L-TRYPTOPHAN UNLABELED (73-22-3)			
LD50 oral rat	> 16000 mg/kg		
THYMINE UNLABELED (65-71-4)			
LD50 oral	3500 mg/kg mouse		
Skin corrosion/irritation :	Causes skin irritation.		
L-ALANINE UNLABELED (56-41-7)			
рН	5.5 – 7 at 89.1 g/l at 25 °C (77 °F)		
CREATININE UNLABELED (60-27-5)			
рН	7.5 – 8.5 at 50 g/l at 20 °C (68 °F)		
L-PHENYLALANINE UNLABELED (63-91-2)			
рН	5 – 7 at 16.5 g/l at 25 °C (77 °F)		
Serious eye damage/irritation :	Causes serious eye irritation.		
L-ALANINE UNLABELED (56-41-7)			
рН	5.5 – 7 at 89.1 g/l at 25 °C (77 °F)		
CREATININE UNLABELED (60-27-5)			
рН	7.5 – 8.5 at 50 g/l at 20 °C (68 °F)		
L-PHENYLALANINE UNLABELED (63-91-2)			
рН	5 – 7 at 16.5 g/l at 25 °C (77 °F)		
Respiratory or skin sensitization :	Not classified		

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
L-TYROSINE UNLABELED (60-18-4)	
National Toxicology Program (NTP) Status	No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.
Reproductive toxicity	Not classified
STOT-single exposure	: May cause respiratory irritation.
ETHANOLAMINE HCI UNLABELED (141-	43-5)
STOT-single exposure	May cause respiratory irritation.
NICOTINAMIDE UNLABELED (98-92-0)	
STOT-single exposure	May cause respiratory irritation.
L-TYROSINE UNLABELED (60-18-4)	
STOT-single exposure	May cause respiratory irritation.
1,4-BUTANEDIAMINE:2HCL UNLABELED	D (333-93-7)
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
L-LEUCINE UNLABELED (61-90-5)	
NOAEL (oral,rat,90 days)	3840 mg/kg bodyweight/day female
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and	: This information is based on our current knowledge and is intended to describe the product for
symptoms	the purposes of health, safety and environmental requirements only. It should not therefore be
	construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

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.
L-ALANINE UNLABELED (56-41-7)	
EC50 - Crustacea [1]	> 100 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h (OECD Test Guideline 202)
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
L-ALANINE UNLABELED (56-41-7)	
Partition coefficient n-octanol/water (Log Pow)	-2.74 at 20 °C (68 °F)
L-TYROSINE UNLABELED (60-18-4)	
Partition coefficient n-octanol/water (Log Pow)	-2.26 at 25 °C (77 °F)

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GUANOSINE UNLABELED (118-00-3)		
Partition coefficient n-octanol/water (Log Pow)	1.918	
12.4. Mobility in soil		
No additional information available		
12.5. Other adverse effects		
Other adverse effects	: Avoid release to the environment. Disposal must be done according to official regulations.	

SECTION 13: Disposal considerations	;
13.1. Disposal methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.

SECTION 14: Transport information	
In accordance with DOT / TDG / IMDG / IATA	
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Not applicable Not applicable Not applicable Not applicable
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: Not applicable
TDG Transport hazard class(es) (TDG)	: 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 (TDG) Packing group (IMDG) Packing group (IATA)	 Not applicable Not applicable Not applicable Not applicable

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14.5. Environmental hazards

Other information

: No supplementary information available.

14.6. Special precautions for user

DOT

No data available

TDG

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

Metabolomics QReSS™ Standard Mix 1 (unlabeled)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):				ntrol Act (TSCA):
Name	CAS-No.	Listing	Commercial status	Flags
L-ALANINE UNLABELED	56-41-7	Present	Active	
CREATININE UNLABELED	60-27-5	Present	Active	
ETHANOLAMINE HCI UNLABELED	141-43-5	Present	Active	
HYPOXANTHINE UNLABELED	68-94-0	Present	Active	
L-LEUCINE UNLABELED	61-90-5	Present	Active	
NICOTINAMIDE UNLABELED	98-92-0	Present	Active	
L-TRYPTOPHAN UNLABELED	73-22-3	Present	Active	
L-TYROSINE UNLABELED	60-18-4	Not present	-	
THYMINE UNLABELED	65-71-4	Present	Active	
L-PHENYLALANINE UNLABELED	63-91-2	Present	Active	
GUANOSINE UNLABELED	118-00-3	Present	Active	
1,4-BUTANEDIAMINE:2HCL UNLABELED	333-93-7	Present	Active	

L-ALANINE UNLABELED (56-41-7)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.

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CREATININE UNLABELED (60-27-5)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
ETHANOLAMINE HCI UNLABELED (141-43-5)		
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
HYPOXANTHINE UNLABELED (68-94-0)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
L-LEUCINE UNLABELED (61-90-5)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
NICOTINAMIDE UNLABELED (98-92-0)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard	
L-TRYPTOPHAN UNLABELED (73-22-3)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
L-TYROSINE UNLABELED (60-18-4)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
THYMINE UNLABELED (65-71-4)		
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
L-PHENYLALANINE UNLABELED (63-91-2)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
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GUANOSINE UNLABELED (118-00-3)	1	

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1,4-BUTANEDIAMINE:2HCL UNLABELED (333	3-93-7)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard		
15.2. International regulations			
CANADA			
L-ALANINE UNLABELED (56-41-7)			
Listed on the Canadian DSL (Domestic Substances Lis	t)		
CREATININE UNLABELED (60-27-5)			
Listed on the Canadian DSL (Domestic Substances Lis	t)		
ETHANOLAMINE HCI UNLABELED (141-43-5)			
Listed on the Canadian DSL (Domestic Substances Lis	t)		
HYPOXANTHINE UNLABELED (68-94-0)			
Listed on the Canadian DSL (Domestic Substances Lis	t)		
L-LEUCINE UNLABELED (61-90-5)			
Listed on the Canadian DSL (Domestic Substances List)			
NICOTINAMIDE UNLABELED (98-92-0)			
Listed on the Canadian DSL (Domestic Substances List)			
L-TRYPTOPHAN UNLABELED (73-22-3) Listed on the Canadian DSL (Domestic Substances Lis	t)		
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L-TYROSINE UNLABELED (60-18-4)			
Listed on the Canadian DSL (Domestic Substances List)			
THYMINE UNLABELED (65-71-4)			
Listed on the Canadian NDSL (Non-Domestic Substances List)			
L-PHENYLALANINE UNLABELED (63-91-2)			
Listed on the Canadian DSL (Domestic Substances Lis	t)		

GUANOSINE UNLABELED (118-00-3)

Listed on the Canadian DSL (Domestic Substances List)

1,4-BUTANEDIAMINE:2HCL UNLABELED (333-93-7)

Listed on the Canadian NDSL (Non-Domestic Substances List)

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EU-Regulations

No additional information available

National regulations

L-ALANINE UNLABELED (56-41-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

CREATININE UNLABELED (60-27-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

ETHANOLAMINE HCI UNLABELED (141-43-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

L-LEUCINE UNLABELED (61-90-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

NICOTINAMIDE UNLABELED (98-92-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

L-TRYPTOPHAN UNLABELED (73-22-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

THYMINE UNLABELED (65-71-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

Component	State or local regulations
ETHANOLAMINE HCI UNLABELED(141-43-5)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
L-TYROSINE UNLABELED(60-18-4)	U.S Pennsylvania - RTK (Right to Know) List; U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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Revision date
Other information

: 03/19/2024

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of H-phrases		
H315	Causes skin irritation	
H319	Causes serious eye irritation	

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H335 May cause respiratory irritation	Full text of H-phrases		
	H335	May cause respiratory irritation	

Safety Data Sheet (SDS), USA

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 : Metabolomics QReSS™ Standard Mix 2 (unlabeled) Product code : MSK-QRESS2-US 1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier			
Cambridge Isotope Laboratories, Inc. 50 Frontage Rd 01810 ANDOVER, MA, 01810 USA T 1-800-322-1174 <u>cilsales@isotope.com</u> - <u>www.isotope.com</u>			
1.4. Emergency telephone number			
Emergency number	: 1-703-741-5970		

Chemtrec 1-800-424-9300 24 hours

2.1. Classification of the substance of	or mixture		
GHS US classification			
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Specific target organ toxicity – Single exposu Respiratory tract irritation Full text of H statements : see section 16		H315 H319 H335	Causes skin irritation Causes serious eye irritation May cause respiratory irritation
2.2. GHS Label elements, including p	recautionary state	ements	
GHS US labeling			
Hazard pictograms (GHS US)		$\boldsymbol{\succ}$	
	· · · · · · · · · · · · · · · · · · ·		
Signal word (GHS US)	: Warning		
Signal word (GHS US) Hazard statements (GHS US)	: H315 - Ca	uses skin irritatio	
3	: H315 - Ca H319 - Ca	iuses serious eye	e irritation
Hazard statements (GHS US)	: H315 - Ca H319 - Ca H335 - Ma	iuses serious eye ay cause respirat	e irritation ory irritation
3	: H315 - Ča H319 - Ča H335 - Ma : P261 - Av	auses serious eye ay cause respirat oid breathing due	e irritation
Hazard statements (GHS US)	: H315 - Ča H319 - Ča H335 - Ma : P261 - Av P264 - Wa P271 - Us	auses serious eya ay cause respirat oid breathing dus ash hands, forea e only outdoors o	e irritation ory irritation st/fume/gas/mist/vapors/spray. rms and face thoroughly after handling. or in a well-ventilated area.
Hazard statements (GHS US)	: H315 - Ca H319 - Ca H335 - Ma : P261 - Av P264 - Wa P271 - Us P280 - Wa	auses serious eye ay cause respirat oid breathing dus ash hands, forea e only outdoors ear protective glo	e irritation ory irritation st/fume/gas/mist/vapors/spray. rms and face thoroughly after handling. or in a well-ventilated area. wes/protective clothing/eye protection/face protection.
Hazard statements (GHS US)	: H315 - Ca H319 - Ca H335 - Ma : P261 - Av P264 - Wa P271 - Us P280 - Wa P302+P38	auses serious eye ay cause respirat oid breathing dus ash hands, forea e only outdoors ear protective glo 52 - If on skin: W	e irritation ory irritation st/fume/gas/mist/vapors/spray. rms and face thoroughly after handling. or in a well-ventilated area.

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contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a poison center or doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - 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: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
FUMARIC ACID UNLABELED	CAS-No.: 110-17-8	24.1	Eye Irrit. 2A, H319
SODIUM PALMITATE UNLABELED	CAS-No.: 408-35-5	24.1	Eye Irrit. 2A, H319
SODIUM PYRUVATE UNLABELED	CAS-No.: 113-24-6	24.1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ALPHA-KETOGLUTARIC ACID, DISODIUM SALT DIHYDRATE UNLABELED	CAS-No.: 305-72-6	24.1	Not classified
CITRIC ACID UNLABELED	CAS-No.: 77-92-9	2.41	Eye Irrit. 2A, H319
INDOLE-3-ACETIC ACID UNLABELED	CAS-No.: 87-51-4	1.2	Not classified

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures	
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. and soap. Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.

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4.2. Most important symptoms and effects (acute and delayed)			
Potential Adverse human health effects and symptoms	: 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.		
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.		
Symptoms/effects after skin contact	: Causes skin irritation.		
Symptoms/effects after eye contact	: Causes serious eye irritation.		
Symptoms/effects after ingestion	: May be harmful if swallowed.		

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing media				
5.2. Specific hazards arising from the cher	nical			
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2).			
5.3. Special protective equipment and pred	cautions for fire-fighters			
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.			

SECTION 6: Accidental release measures			
6.1. Personal precautions, prote	ctive equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures 6.1.2. For emergency responders	: Avoid breathing vapors, mist, gas. Avoid dust formation.		
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

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

6.3. Methods and material for containing	ment and cleaning up
For containment Methods for cleaning up	 Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.
6.4. Reference to other sections	

For further information refer to section 13.

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SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
•	 Provide adequate ventilation to minimize dust and/or vapor concentrations. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice. 		
7.2. Conditions for safe storage, including an	ny incompatibilities		
	 Store in a well-ventilated place. Keep container tightly closed. Store in freezer (-20°C). Protect from light. 		
SECTION 8: Exposure controls/personal	protection		
8.1. Control parameters			
Metabolomics QReSS™ Standard Mix 2 (unl	abeled)		
No additional information available			
CITRIC ACID UNLABELED (77-92-9)			
USA - ACGIH - Occupational Exposure Limits			
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.		
FUMARIC ACID UNLABELED (110-17-8)			
USA - ACGIH - Occupational Exposure Limits			
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.		
INDOLE-3-ACETIC ACID UNLABELED (87-51	-4)		
USA - ACGIH - Occupational Exposure Limits			
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.		
SODIUM PALMITATE UNLABELED (408-35-5	5)		
USA - ACGIH - Occupational Exposure Limits			
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.		
SODIUM PYRUVATE UNLABELED (113-24-6))		
USA - ACGIH - Occupational Exposure Limits			
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.		
ALPHA-KETOGLUTARIC ACID, DISODIUM S	ALT DIHYDRATE UNLABELED (305-72-6)		
No additional information available			
8.2. Appropriate engineering controls			
Appropriate engineering controls	 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. 		
Environmental exposure controls	Avoid release to the environment.		

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.

Materials for protective clothing:

Wear suitable protective clothing and gloves

Hand protection:

Wear suitable protective clothing and gloves

Eye protection:

Wear eye protection. Chemical goggles or face shield with safety glasses

Skin and body protection:

Wear suitable protective clothing, gloves and eye/face protection

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid : Powder.
Appearance	
Color	: White to off-white
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
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	
No additional information available	
10.2. Chemical stability	
See storage and expiration date on CoA.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition products	

Carbon oxides (CO, CO2).

SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity (dermal)	Not classified Not classified Not classified		
CITRIC ACID UNLABELED (77-92-9)	CITRIC ACID UNLABELED (77-92-9)		
LD50 oral rat	5400 mg/kg (OECD Test Guideline 401)		
LD50 dermal rat	> 2000 mg/kg (OECD Test Guideline 402)		
ATE US (oral)	9300 mg/kg body weight		
ATE US (dermal)	20000 mg/kg body weight		
FUMARIC ACID UNLABELED (110-17-8)			
LD50 oral rat	9300 mg/kg female (OECD Test Guideline 401)		
LD50 dermal rabbit	20000 mg/kg (OECD Test Guideline 402)		
ATE US (oral)	9300 mg/kg body weight		
ATE US (dermal)	20000 mg/kg body weight		
LD50, intraperitoneal, mouse	100 mg/kg		
Skin corrosion/irritation :	Causes skin irritation.		
CITRIC ACID UNLABELED (77-92-9)			
рН	1.8 at ca.50 g/l at °C (77 °F)		

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FUMARIC ACID UNLABELED (110-17-8)			
pH	2.1 at 4.9 g/l at 20 °C (68 °F)		
SODIUM PYRUVATE UNLABELED (113-24-6			
рН	7		
Serious eye damage/irritation	Causes serious eye irritation.		
CITRIC ACID UNLABELED (77-92-9)			
рН	1.8 at ca.50 g/l at °C (77 °F)		
FUMARIC ACID UNLABELED (110-17-8)			
рН	2.1 at 4.9 g/l at 20 °C (68 °F)		
SODIUM PYRUVATE UNLABELED (113-24-6)			
рН	7		
Respiratory or skin sensitization	Not classified		
Germ cell mutagenicity	Not classified		
Carcinogenicity	Not classified		
Reproductive toxicity	Not classified		
STOT-single exposure	May cause respiratory irritation.		
SODIUM PYRUVATE UNLABELED (113-24-6			
STOT-single exposure	May cause respiratory irritation.		
STOT-repeated exposure	Not classified		
FUMARIC ACID UNLABELED (110-17-8)			
NOAEL (oral,rat,90 days)	600 mg/kg bodyweight/day male		
Aspiration hazard	Not classified		
Viscosity, kinematic	No data available		
Potential Adverse human health effects and	This information is based on our current knowledge and is intended to describe the product for		
symptoms	the purposes of health, safety and environmental requirements only. It should not therefore be		
	construed as guaranteeing any specific property of the product.		
Symptoms/effects after inhalation	May be harmful if inhaled. May cause respiratory irritation.		
Symptoms/effects after skin contact	Causes skin irritation.		
Symptoms/effects after eye contact	Causes serious eye irritation.		
Symptoms/effects after ingestion	May be harmful if swallowed.		

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.
CITRIC ACID UNLABELED (77-92-9)	
LC50 - Fish [1]	440 mg/l Mortality - Leuciscus idus melanotus - 48 h (OECD Test Guideline 203)
EC50 - Crustacea [1]	1535 mg/l Static test - Daphnia magna (Water flea) - 24 h
FUMARIC ACID UNLABELED (110-17-8)	
LC50 - Fish [1]	> 100 mg/l Danio rerio (Zebra fish) - 96 h (OECD Test Guideline 203)
EC50 - Crustacea [1]	212 mg/l Immobilization - Daphnia magna (Water flea) - 48 h (OECD Test Guideline 202)
EC50 - Other aquatic organisms [1]	> 300 mg/l Growth inhibition - activated sludge - 3 h (OECD Test Guideline 209)

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FUMARIC ACID UNLABELED (110-17-8)	
ErC50 algae	> 100 mg/l Pseudokirchneriella subcapitata - 72 h (OECD Test Guideline 201)
12.2. Persistence and degradability	
FUMARIC ACID UNLABELED (110-17-8)	
Persistence and degradability	Aerobic - exposure time: 28 d.
Biodegradation	67.5 % Readily biodegradable
12.3. Bioaccumulative potential	
CITRIC ACID UNLABELED (77-92-9)	
Partition coefficient n-octanol/water (Log Pow)	-1.639 at 20 °C (68 °F)
FUMARIC ACID UNLABELED (110-17-8)	
Partition coefficient n-octanol/water (Log Pow)	0.46 at 20 °C (68 °F)
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other adverse effects :	Avoid release to the environment. Disposal must be done according to official regulations.
SECTION 13: Disposal considerations	
13.1. Disposal methods	

Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local
	environmental control regulations.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed
	professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.

SECTION 14: Transport information	
In accordance with DOT / TDG / IMDG / IATA	
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Not applicable Not applicable Not applicable Not applicable
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: Not applicable

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TDG Transport hazard class(es) (TDG)	: 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 (TDG) Packing group (IMDG) Packing group (IATA)	 Not applicable Not applicable Not applicable Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT No data available	
TDG 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

Metabolomics QReSS™ Standard Mix 2 (unlabeled)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
Commercial status of components according to the Unit	Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):			
Name	CAS-No.	Listing	Commercial status	Flags
CITRIC ACID UNLABELED	77-92-9	Present	Active	
FUMARIC ACID UNLABELED	110-17-8	Present	Active	
INDOLE-3-ACETIC ACID UNLABELED	87-51-4	Present	Active	
SODIUM PALMITATE UNLABELED	408-35-5	Present	Active	
SODIUM PYRUVATE UNLABELED	113-24-6	Present	Active	
ALPHA-KETOGLUTARIC ACID, DISODIUM SALT DIHYDRATE UNLABELED	305-72-6	Not present	-	

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CITRIC ACID UNLABELED (77-92-9)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

FUMARIC ACID UNLABELED (110-17-8)	
Not subject to reporting requirements of the United Stat	tes SARA Section 313
CERCLA RQ	5000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

SODIUM PALMITATE UNLABELED (408-35-5)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302

SODIUM PYRUVATE UNLABELED (113-24-6)	
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA Section 302 Threshold Planning Quantity Not subject to reporting requirements of the United States SARA Section 302. (TPQ)	ALPHA-KETOGLUTARIC ACID, DISODIUM SAI	LT DIHYDRATE UNLABELED (305-72-6)
	SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.

15.2. International regulations

CANADA

CITRIC ACID UNLABELED (77-92-9)

Listed on the Canadian DSL (Domestic Substances List)

FUMARIC ACID UNLABELED (110-17-8)
Listed on the Canadian DSL (Domestic Substances List)

INDOLE-3-ACETIC ACID UNLABELED (87-51-4)

Listed on the Canadian NDSL (Non-Domestic Substances List)

SODIUM PALMITATE UNLABELED (408-35-5)

Listed on the Canadian DSL (Domestic Substances List)

SODIUM PYRUVATE UNLABELED (113-24-6)

Listed on the Canadian DSL (Domestic Substances List)

ALPHA-KETOGLUTARIC ACID, DISODIUM SALT DIHYDRATE UNLABELED (305-72-6)

Listed on the Canadian DSL (Domestic Substances List)

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EU-Regulations

No additional information available

National regulations

CITRIC ACID UNLABELED (77-92-9)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

FUMARIC ACID UNLABELED (110-17-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

INDOLE-3-ACETIC ACID UNLABELED (87-51-4)	
Listed on INSQ (Mexican National Inventory of Che	mical Substances)
15.3. US State regulations	
Component	State or local regulations
FUMARIC ACID UNLABELED(110-17-8)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous

Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information		
according to I	according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations	
Revision date	: 03/19/2024	
Other informa	ion : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.	
Full text of H-phrases		
H315	Causes skin irritation	

11010	
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Safety Data Sheet (SDS), USA

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.