

# L-Arginine/Urea/Ammonia Assay Kit

### Kit Safety Information Sheet (SIS)

Issue date (US): 12/18/2017 Revision date (US): 4/12/2022 Supersedes (US): 4/30/2020 Version (US): 1.2

### **SECTION 1: Kit identification**

### **1.1 Kit identifier**

Product name

Product code

: L-Arginine/Urea/Ammonia Assay Kit : K-LARGE

1.2 Details of the supplier of the Kit safety information sheet

Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme.com

### **SECTION 2: General information**

This product is a Kit which consists of several independently packaged components This Kit should be handled in accordance with good laboratory practices and appropriate personal protective equipment should be used

### **SECTION 3: Kit contents**

Name	General description	Weight or Volume	Quantity	Unit	GHS US classification
L-Arginine/Urea/Ammonia Assay Kit (Bottle 1)	Buffer		EV.	pcs (pieces)	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 1B, H360
L-Arginine/Urea/Ammonia Assay Kit (Bottle 2)	Reagent		1	pcs (pieces)	Acute Tox. 4 (Oral), H302
L-Arginine/Urea/Ammonia Assay Kit (Bottle 3)	Reagent		1	pcs (pieces)	Eye Irrit. 2, H319
L-Arginine/Urea/Ammonia Assay Kit (Bottle 4)	Reagent		1	pcs (pieces)	Eye Irrit. 2, H319 Resp. Sens. 1, H334
L-Arginine/Urea/Ammonia Assay Kit (Bottle 5)	Reagent		1	pcs (pieces)	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 1B, H360
L-Arginine/Urea/Ammonia Assay Kit (Bottle 6)	Reagent		1	pcs (pieces)	Not classified

### SECTION 4: General advice

### No data available

SECTION 5: Safe handling advice	
Environmental precautions Storage conditions	<ul> <li>Avoid release to the environment</li> <li>Store in a well-ventilated place.</li> <li>Keep cool.</li> </ul>
Precautions for safe handling	: Ensure good ventilation of the work station Wear personal protective equipment

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SECTION 6: First aid measures	
First-aid measures after eye contact First-aid measures after ingestion First-aid measures after inhalation First-aid measures after skin contact Other medical advice or treatment	<ul> <li>Rinse eyes with water as a precaution</li> <li>Call a poison center/doctor/physician if you feel unwell</li> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water</li> <li>Treat symptomatically</li> </ul>
SECTION 7: Fire fighting measures	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment Self-contained breathing apparatus
Hazardous decomposition products in case of fire	Complete protective clothing : Toxic fumes may be released
SECTION 8: Transport information	
In accordance with DOT / TDG / IMDG / IATA	
8.1. UN number	
Not regulated for transport	
8.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
8.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT)	: Not applicable
<b>TDG</b> Transport hazard class(es) (TDG)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
IATA Transport hazard class(es) (IATA)	: Not applicable
8.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
8.5. Environmental hazards	
Other information	: No supplementary information available.
8.6. Special precautions for user	
DOT No data available	

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### TDG

No data available

IMDG No data available

IATA No data available

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

Not applicable

**SECTION 9: Other information** 

No data available





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### **SECTION 1: Identification**

1.1. Identification	
Product form Product name Product code	: Mixture : L-Arginine/Urea/Ammonia Assay Kit (Bottle 1) : K-LARGE (Bottle 1)
1.2. Recommended use and restrictions o	n use
Use of the substance/mixture	: Use as laboratory reagent
1.3. Supplier	
Manufacturer Megazyme Bray Business Park Bray, County Wicklow, A98 YV29 Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme.com	
1.4. Emergency telephone number	
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mix GHS US classification Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Reproductive toxicity Category 1B	xture Causes skin irritation Causes serious eye irritation May damage fertility or the unborn child
2.2. GHS Label elements, including preca	utionary statements
GHS US labeling Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US)	<ul> <li>Danger</li> <li>Causes skin irritation</li> <li>Causes serious eye irritation</li> <li>May damage fertility or the unborn child</li> </ul>
Precautionary statements (GHS US)	<ul> <li>Obtain special instructions before use.</li> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Wash hands thoroughly after handling.</li> <li>Wear eye protection, protective clothing, protective gloves</li> <li>If on skin: Wash with plenty of water.</li> </ul>
2.3. Other hazards which do not result in	classification
No additional information available	

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

No additional information available

### SECTION 3: Composition/Information on ingredients

### 3.1. Substances

### Not applicable

### 3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
triethanolamine	2,2',2"- nitrilotriethanol / 2,2',2"-nitrilo- tris(ethanol) / 2,2',2"- trihydroxytriethyla mine / daltogen / ethanol, 2,2',2"- nitrilotri- / ethanol, 2,2',2"-nitrilotris- / nitrilo-2,2',2"- triethanol / sterolamide / sting-kill / TEA (=triethanolamine) / thiofaco T-35 / tri(2- hydroxyethyl)amin e / triethanolamine- NG / triethylolamine / trihydroxytriethyla mine / tris(2- hydroxyethyl)amin e / tris(hydroxyethyl) amine / trolamine	CAS-No.: 102-71-6	5 – 10	Not classified
imidazole		CAS-No.: 288-32-4	1 – 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Repr. 1B, H360

### 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 First-aid measures after inhalation	<ul><li>IF exposed or concerned: Get medical advice/attention.</li><li>Remove person to fresh air and keep comfortable for breathing.</li></ul>

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First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effects	(acute and delayed)
Symptoms/effects after skin contact Symptoms/effects after eye contact	: Irritation. : Eye irritation.
4.3. Immediate medical attention and spec	al treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	g media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the chem	nical
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Special protective equipment and prec	autions 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 measu	res
6.1. Personal precautions, protective equip	oment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
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.

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SECTION 7: Handling	g and storage				
7.1. Precautions for safe handling					
Precautions for safe handlin Hygiene measures	ig :	Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment Avoid contact with skin and eyes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.			
7.2. Conditions for safe	e storage, including any	y incompatibilities			
Storage conditions	:	Store locked up. Store in a well-	ventilated place.	. Keep cool.	
SECTION 8: Exposu	re controls/personal	protection			
8.1. Control parameters	S				
L-Arginine/Urea/Ammo	onia Assay Kit (Bottle 1	)			
No additional information a	vailable				
triethanolamine (102-7	1-6)				
USA - ACGIH - Occupatio	nal Exposure Limits				
Local name		Triethanolamine			
ACGIH OEL TWA		5 mg/m³ (Triethanolamine; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)			
Remark (ACGIH)		Eye & skin irr			
imidazole (288-32-4)					
No additional information a	vailable				
8.2. Appropriate engine	eering controls				
Appropriate engineering cor Environmental exposure cor		Ensure good ventilation of the w Avoid release to the environmer			
8.3. Individual protection	on measures/Personal	protective equipment			
Hand protection:					
Protective gloves					
Туре	Material	Permeation Thickness (mm) Penetration		Penetration	
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes) 2 (< 1.5)		2 (< 1.5)	
Eye protection:	Eye protection:				
Safety glasses					
Туре		Field of application		Characteristics	
Safety glasses		Droplet		clear, With side shields	
Skin and body protection:					
Wear suitable protective clo	othing				

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Туре	
Lab coat	
Respiratory protection:	
[In case of inadequate ventilation] wear respiratory protection.	

Personal protective equipment symbol(s):



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

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

Physical state	: Liquid
Color	: Mixture contains one or more component(s) which have the following colour(s):
	Colourless to light yellow On exposure to air: brown
Odor	: None
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	: Soluble in water.
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

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

### **10.2. Chemical stability**

Stable under normal conditions.

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### 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 (dermal)	Not classified Not classified Not classified
triethanolamine (102-71-6)	
LD50 oral rat	> 5000 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 6400 mg/kg bodyweight; Rat)
LD50 oral	8000 mg/kg body weight
LD50 dermal rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; >2000 mg/kg bodyweight; Rabbit)
LD50 dermal	> 10000 mg/kg body weight
LC50 Inhalation - Rat (Dust/Mist)	> 1.8 mg/l
ATE US (oral)	8000 mg/kg body weight
imidazole (288-32-4)	
LD50 oral	960 mg/kg
ATE US (oral)	500 mg/kg body weight
Skin corrosion/irritation	Causes skin irritation.
triethanolamine (102-71-6)	
рН	11 (25 %)
Serious eye damage/irritation	Causes serious eye irritation.
triethanolamine (102-71-6)	
рН	11 (25 %)
	Not classified
Germ cell mutagenicity	Not classified
	Not classified
triethanolamine (102-71-6)	
IARC group	3 - Not classifiable
Reproductive toxicity	May damage fertility or the unborn child.

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STOT-single exposure STOT-repeated exposure Aspiration hazard Viscosity, kinematic	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>No data available</li> </ul>	
triethanolamine (102-71-6)		
Viscosity, kinematic	53.381 mm <sup>2</sup> /s	
Symptoms/effects after skin contact Symptoms/effects after eye contact	: Irritation. : Eye irritation.	

### **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.
triethanolamine (102-71-6)	
LC50 - Fish [1]	11800 mg/l
EC50 - Other aquatic organisms [1]	2038 mg/l waterflea
LC50 - Fish [2]	450 – 1000 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 - Other aquatic organisms [2]	216 mg/l
imidazole (288-32-4)	
NOEC chronic algae	25 mg/l

### 12.2. Persistence and degradability

triethanolamine (102-71-6)		
Persistence and degradability	Photolysis in the air. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.02 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	1.5 g O <sub>2</sub> /g substance	
ThOD	2.04 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0.02 % ThOD	

### 12.3. Bioaccumulative potential

triethanolamine (102-71-6)		
BCF - Fish [1]	< 3.9 (Cyprinus carpio; TEST DURATION: 6 WEEKS)	
Partition coefficient n-octanol/water (Log Pow)	-2.531.32	
Bioaccumulative potential	Bioaccumulation unlikely.	

### 12.4. Mobility in soil

### No additional information available

### 12.5. Other adverse effects

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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 / TDG / IMDG / IATA	
14.1. UN number	
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: Not applicable
<b>TDG</b> 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)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT Not applicable	
TDG Not applicable	
IMDG Not applicable	
IATA	

Not applicable

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### 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**

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
triethanolamine	102-71-6	Present	Active	
imidazole	288-32-4	Not present	-	

### 15.2. International regulations

### CANADA

No additional information available

### **EU-Regulations**

No additional information available

### **National regulations**

No additional information available

15.3. US State regulations Component	State or local regulations
triethanolamine(102-71-6)	U.S New Jersey - Right to Know Hazardous Substance 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 Product name	: Mixture
Product name Product code	: L-Arginine/Urea/Ammonia Assay Kit (Bottle 2) : K-LARGE (Bottle 2)
1.2. Recommended use and restrictions on	
Use of the substance/mixture	: Use as laboratory reagent
1.3. Supplier	
Manufacturer	
Megazyme	
Bray Business Park	
Bray, County Wicklow, A98 YV29 Ireland	
T +353 12861220 - F +353 12861264	
cs@megazyme.com - www.megazyme.com	
1.4. Emergency telephone number	
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazard(s) identification	
SECTION 2. Hazaru(S) Identification	
2.1. Classification of the substance or mix	ture
GHS US classification	
Acute toxicity (oral) Category 4	Harmful if swallowed
2.2. GHS Label elements, including precau	tionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Warning
Hazard statements (GHS US)	: Harmful if swallowed
Precautionary statements (GHS US)	: Wash hands thoroughly after handling.
	Do not eat, drink or smoke when using this product.
	If swallowed: Call a doctor, a POISON CENTER if you feel unwell. Rinse mouth.
	Dispose of contents/container to
2.3. Other hazards which do not result in c	
Lief other hazardo millen do not result in c	

No additional information available

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

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

### 3.1. Substances

### Not applicable

### 3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
3-cyclohexylaminopropane-1-sulphonic acid, CAPS buffer		CAS-No.: 1135-40-6	20 – 30	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312

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 First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Call a poison center/doctor/physician if you feel unwell.</li> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water.</li> <li>Rinse eyes with water as a precaution.</li> <li>Rinse mouth. Call a poison center/doctor/physician if you feel unwell.</li> </ul>
4.2. Most important symptoms and ex No additional information available	ffects (acute and delayed)
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				
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	quipment 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".			



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6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containm	ent and cleaning up
Methods for cleaning up Other information	<ul><li>Mechanically recover the product.</li><li>Dispose of materials or solid residues at an authorized site.</li></ul>
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, includ	ing any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/pers	sonal protection
8.1. Control parameters	ーフ普対
L-Arginine/Urea/Ammonia Assay Kit (B	Bottle 2)
No additional information available	
3-cyclohexylaminopropane-1-sulphoni	c acid, CAPS buffer (1135-40-6)
No additional information available	
8.2 Appropriate engineering controls	

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						
Type         Material         Permeation         Thickness (mm)         Penetration						
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)		
Eye protection:						
Safety glasses						
Type Field of application			Characteristics			
Safety glasses		Dust		clear, With side shields		

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# Skin and body protection: Wear suitable protective clothing Type Lab coat 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	: Solid
Color	: Colorless
Odor	: None
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	: Soluble in water.
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.

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### 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)	: Harmful if swallowed. : Not classified : Not classified				
L-Arginine/Urea/Ammonia Assay K	it (Bottle 2)				
ATE US (oral)	1670.007 mg/kg body weight				
3-cyclohexylaminopropane-1-sulph	ionic acid, CAPS buffer (1135-40-6)				
ATE US (oral)	500 mg/kg body weight				
ATE US (dermal)	1100 mg/kg body weight				
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

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### \*\*\* DRAFT \*\*\*

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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 consideration	5
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
SECTION 14: Transport information	
In accordance with DOT / TDG / IMDG / IATA	
14.1. UN number	
UN-No. (TDG)	: Not applicable : Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG)	: Not applicable RUT
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
14.3. Transport hazard class(es)	
DOT	
Transport hazard class(es) (DOT)	: Not applicable
TDG Transport hazard class(es) (TDG)	: Not applicable
INDC	
IMDG 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 (TDG) 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	
DOT	

**DOT** Not applicable

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### TDG

Not applicable

### IMDG

Not applicable

### IATA

Not applicable

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

Not applicable

### **SECTION 15: Regulatory information**

**15.1. US Federal regulations** 

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
3-cyclohexylaminopropane-1-sulphonic acid, CAPS buffer	1135-40-6	Not present	-	

### 15.2. International regulations

### CANADA

No additional information available

### **EU-Regulations**

No additional information available

### **National regulations**

No additional information available

15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

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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 Product name Product code	: Mixture : L-Arginine/Urea/Ammonia Assay Kit (Bottle 3) : K-LARGE (Bottle 3)
1.2. Recommended use and restrictions of	n use
Use of the substance/mixture	: Use as laboratory reagent
1.3. Supplier	
Manufacturer Megazyme Bray Business Park Bray, County Wicklow, A98 YV29 Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme.com	
1.4. Emergency telephone number	
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mix	xture
GHS US classification	
Serious eye damage/eye irritation Category 2	Causes serious eye irritation
2.2. GHS Label elements, including preca	utionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	<ul> <li>Warning</li> <li>Causes serious eye irritation</li> <li>Wash hands thoroughly after handling.</li> <li>Wear eye protection, protective clothing, protective gloves</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>If eye irritation persists: Get medical advice/attention.</li> </ul>
2.3. Other hazards which do not result in a	classification
No additional information available	

2.4. Unknown acute toxicity (GHS US)

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### SECTION 3: Composition/Information on ingredients

### 3.1. Substances

### Not applicable

### 3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
lithium sulfate	lithium sulfate(2:1) / lithium sulfate,anhydrous / lithium sulphate / sulfuric acid, dilithium salt / sulfuric acid,lithium salt(1:2)	CAS-No.: 10377-48-7	10 – 20	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319

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

SECTION 4: First-aid measures					
<b>4.1. Description of first aid measures</b> First-aid measures after inhalation	<ul> <li>Remove person to fresh air and keep comfortable for breathing.</li> </ul>				
First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Wash skin with plenty of water.</li> <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> <li>Call a poison center/doctor/physician if you feel unwell.</li> </ul>				
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.					
SECTION 5: Fire-fighting measures					
5.1. Suitable (and unsuitable) extinguishing	g 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.

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SECTION 6: Accidental release measure	es
6.1. Personal precautions, protective equipn	nent and emergency procedures
<ul><li>6.1.1. For non-emergency personnel</li><li>Emergency procedures</li><li>6.1.2. For emergency responders</li><li>Protective equipment</li></ul>	<ul> <li>: Ventilate spillage area. Avoid contact with skin and eyes.</li> <li>: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".</li> </ul>
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment a	nd cleaning up
Methods for cleaning up Other information	<ul><li>Take up liquid spill into absorbent material.</li><li>Dispose of materials or solid residues at an authorized site.</li></ul>
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. Avoid contact with skin and eyes. 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 a	ny incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/persona	I protection
8.1. Control parameters	
L-Arginine/Urea/Ammonia Assay Kit (Bottle	3)
No additional information available	
lithium sulfate (10377-48-7)	
No additional information available	
8.2. Appropriate engineering controls	
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/Persona	I protective equipment
Hand protection:	
Protective gloves	

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Туре	Material	Permeation	Thickness (mm)		Penetration		
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)			2 (< 1.5)		
Eye protection:							
Safety glasses							
Туре		Field of application		Characteristics			
Safety glasses		Droplet		clear, With side shields			
Skin and body protection:							
Wear suitable protective clothing							
Туре							
Lab coat							
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	: milky
Odor	: None
Odor threshold	: No data available
pН	: 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	: Soluble in water.
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

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### **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)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
lithium sulfate (10377-48-7)	
LD50 oral rat	580 mg/kg rat
ATE US (oral)	580 mg/kg body weight
Skin corrosion/irritation	: Not classified
lithium sulfate (10377-48-7)	
рН	8 (4 %)
Serious eye damage/irritation	: Causes serious eye irritation.
lithium sulfate (10377-48-7)	
рН	8 (4 %)
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
Symptoms/effects after eye contact	: Eye irritation.

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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	
lithium sulfate (10377-48-7)	
Persistence and degradability	Biodegradability:Not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
lithium sulfate (10377-48-7)	
Bioaccumulative potential	Not established.
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 / TDG / IMDG / IA	ТА	
14.1. UN number		
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	<ul><li>Not applicable</li><li>Not applicable</li><li>Not applicable</li><li>Not applicable</li><li>Not applicable</li></ul>	
14.2. UN proper shipping name		
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	

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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)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>			
14.5. Environmental hazards				
Other information	: No supplementary inform	ation available.		
14.6. Special precautions for user				
DOT Not applicable				
TDG Not applicable	EP	靓		
IMDG Not applicable				
IATA Not applicable				
14.7. Transport in bulk according to Annex	II of MARPOL 73/78 and	the IBC Code		
Not applicable				
SECTION 15: Regulatory information				
15.1. US Federal regulations				
Commercial status of components according to the l	Jnited States Environmental	Protection Agency's	Toxic Substances Co	ntrol Act (TSCA):
Name	CAS-No.	Listing	Commercial status	Flags
lithium sulfate	10377-48-7	Not present	-	
15.2. International regulations				
CANADA				
No additional information available				

No additional information available

### **EU-Regulations**

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### **National regulations**

No additional information available

15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 3/14/2022

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 Product name Product code	: Mixture : L-Arginine/Urea/Ammonia Assay Kit (Bottle 4) : K-LARGE (Bottle 4)
1.2. Recommended use and restrictions or	n use
Use of the substance/mixture	: Use as laboratory reagent
1.3. Supplier	
Manufacturer Megazyme Bray Business Park Bray, County Wicklow, A98 YV29 Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme.com	
1.4. Emergency telephone number	
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mix	<b>トレ首応</b> ture
GHS US classification	
Serious eye damage/eye irritation Category 2 Respiratory sensitization, Category 1	Causes serious eye irritation May cause an allergy or asthma symptoms or breathing difficulties if inhaled
2.2. GHS Label elements, including precau	utionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	: Causes serious eye irritation May cause an allergy or asthma symptoms or breathing difficulties if inhaled
Precautionary statements (GHS US)	<ul> <li>Avoid breathing dust/fume/gas/mist/vapors/spray.</li> <li>Wash hands thoroughly after handling.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection</li> <li>[In case of inadequate ventilation] wear respiratory protection.</li> <li>If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.</li> </ul>
2.3. Other hazards which do not result in a	classification
No additional information available	
2.4. Unknown acute toxicity (GHS US)	

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

### 3.1. Substances

### Not applicable

### 3.2. Mixtures

Name (Synonyms)	Product identifier	%	GHS US classification
lithium sulfate(2:1) / lithium sulfate,anhydrous / lithium sulphate / sulfuric acid, dilithium salt / sulfuric acid,lithium salt(1:2)	CAS-No.: 10377-48-7	10 – 20	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
	CAS-No.: 9002-13-5	0.1 – 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335
	(Synonyms) ithium sulfate(2:1) / ithium sulfate,anhydrous / lithium sulphate / sulfuric acid, dilithium salt / sulfuric acid,lithium	(Synonyms)         ithium         sulfate(2:1) /         ithium         sulfate,anhydrous         / lithium sulphate /         sulfuric acid,         dilithium salt /         sulfuric acid,         acid,lithium         salt(1:2)         CAS-No.: 10377-48-7	(Synonyms)CAS-No.: 10377-48-710 – 20ithium sulfate(2:1) / ithium sulfate,anhydrous / lithium sulphate / sulfuric acid, dilithium salt / sulfuric acid,lithium salt(1:2)CAS-No.: 10377-48-710 – 20CAS-No.: 9002-13-50.1 – 1

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

4.1. Description of first aid measures	
First-aid measures general	: 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. If experiencing respiratory symptoms: Call a poison center or a doctor.</li> </ul>
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and e	ffects (acute and delayed)
Symptoms/effects after inhalation Symptoms/effects after eye contact	<ul> <li>May cause an allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>Eye irritation.</li> </ul>
4.0 Immediate medical attention and	

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing	g media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the chen	nical	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	

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5.3. Special protective equipment and prec Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing
	apparatus. Complete protective clothing.
SECTION 6: Accidental release measu	res
6.1. Personal precautions, protective equip	oment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
5.1.2. 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	
void release to the environment.	
6.3. Methods and material for containment	and cleaning up
Nethods for cleaning up Other information	<ul><li>Take up liquid spill into absorbent material.</li><li>Dispose of materials or solid residues at an authorized site.</li></ul>
6.4. Reference to other sections	
or further information refer to section 13.	ヒア甫花
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal
łygiene measures	<ul> <li>protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.</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 a	any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/person	al protection
8.1. Control parameters	
L-Arginine/Urea/Ammonia Assay Kit (Bottle	e 4)
No additional information available	
lithium sulfate (10377-48-7)	
No additional information available	
Urease (9002-13-5)	
No additional information available	

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8.2. Appropriate engi	neering controls				
Appropriate engineering controls: Ensure good ventilation of the work station.Environmental exposure controls: Avoid release to the environment.					
8.3. Individual protec	tion measures/Persona	I protective equipment			
Hand protection:					
Protective gloves					
Туре	Material	Permeation	Thickness (mm) Penetration		
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)			2 (< 1.5)
Eye protection:					
Safety glasses					
Туре	Type Field of application Characteristics				
Safety glasses	Safety glasses     Droplet     clear, With side shields				e shields
Skin and body protection	on:				
Wear suitable protective	clothing				
Туре					
Lab coat					
Respiratory protection:		FD 凿	<b>T</b> 1		
[In case of inadequate ve	entilation] wear respiratory p	rotection.			
<b>D</b>					

### Personal protective equipment symbol(s):



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

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

Physical state	:	Liquid
Color	:	milky
Odor	:	None
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	:	Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	:	No data available

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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

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 condition	ons (see section 7).	推进
10.5. Incompatible materials		HITL

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 (dermal)	Not classified Not classified Not classified
lithium sulfate (10377-48-7)	
LD50 oral rat	580 mg/kg rat
ATE US (oral)	580 mg/kg body weight
Skin corrosion/irritation :	Not classified
lithium sulfate (10377-48-7)	
рН	8 (4 %)
Serious eye damage/irritation :	Causes serious eye irritation.
lithium sulfate (10377-48-7)	
рН	8 (4 %)
Respiratory or skin sensitization :	May cause an allergy or asthma symptoms or breathing difficulties if inhaled.

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Urease (9002-13-5)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after eye contact	: Eye irritation.

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		
lithium sulfate (10377-48-7)		
Persistence and degradability	Biodegradability:Not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
12.3. Bioaccumulative potential		
lithium sulfate (10377-48-7)		
Bioaccumulative potential	Not established.	
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 / TDG / IMDG / IATA

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14.1. UN number		
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	
14.2. UN proper shipping name		
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	
14.3. Transport hazard class(es)		
DOT Transport hazard class(es) (DOT)	: Not applicable	
<b>TDG</b> 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)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	
14.5. Environmental hazards		
Other information	: No supplementary information available.	
14.6. Special precautions for user		
DOT Not applicable		
TDG Not applicable		
IMDG Not applicable		
IATA Not applicable		
14.7. Transport in bulk according to Ar	nnex II of MARPOL 73/78 and the IBC Code	
Not applicable		
SECTION 15: Regulatory information	on	
15.1. US Federal regulations		
Commercial status of components according to	the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA)	

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

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Name	CAS-No.	Listing	Commercial status	Flags
lithium sulfate	10377-48-7	Not present	-	
Urease	9002-13-5	Not present	-	

### **15.2. International regulations**

### CANADA

No additional information available

### **EU-Regulations**

No additional information available

### **National regulations**

No additional information available

15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 3/14/2022

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.



### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 12/19/2017 Revision date: 3/14/2022 Supersedes: 4/20/2021 Version: 1.1

### **SECTION 1: Identification**

1.1. Identification			
Product form Product name Product code	: Mixture : L-Arginine/Urea/Ammonia Assay Kit (Bottle 5) : K-LARGE(Bottle 5)		
1.2. Recommended use and restrictions o	n use		
Use of the substance/mixture	: Use as laboratory reagent		
1.3. Supplier			
Manufacturer Megazyme Bray Business Park Bray, County Wicklow, A98 YV29 Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme.com			
1.4. Emergency telephone number			
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]		
SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mix GHS US classification Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Reproductive toxicity Category 1B	causes skin irritation Causes serious eye irritation May damage fertility or the unborn child		
2.2. GHS Label elements, including preca	utionary statements		
GHS US labeling			
Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US)	: Danger : Causes skin irritation		
Precautionary statements (GHS US)	<ul> <li>Causes serious eye irritation</li> <li>May damage fertility or the unborn child</li> <li>Obtain special instructions before use.</li> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Wash hands thoroughly after handling.</li> <li>Wear eye protection, protective clothing, protective gloves</li> <li>If on skin: Wash with plenty of water.</li> </ul>		
2.3. Other hazards which do not result in a	classification		
No additional information available			

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## 2.4. Unknown acute toxicity (GHS US)

No additional information available

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

### 3.1. Substances

### Not applicable

## 3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
lithium sulfate	lithium sulfate(2:1) / lithium sulfate,anhydrous / lithium sulphate / sulfuric acid, dilithium salt / sulfuric acid,lithium salt(1:2)	CAS-No.: 10377-48-7	10 – 20	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
imidazole	EP	CAS-No.: 288-32-4	1 – 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Repr. 1B, H360

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 exposed or concerned: Get medical advice/attention.
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. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effec	ts (acute and delayed)
Symptoms/effects after skin contact Symptoms/effects after eye contact	: Irritation. : Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing	g media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	

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5.2. Specific hazards arising from the	chemical	
Hazardous decomposition products in case o	f 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 m	easures	
	easures equipment and emergency procedures	
6.1. Personal precautions, protective		
6.1. Personal precautions, protective 6.1.1. For non-emergency personnel	equipment and emergency procedures	

# 6.2. Environmental precautions

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

6.3. Methods and material for containr	nent and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public
Other information	waters. : Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

to section 8: "Exposure controls/personal protection".

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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	<ul> <li>Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. 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, inclu	iding any incompatibilities

Storage conditions

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

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## L-Arginine/Urea/Ammonia Assay Kit (Bottle 5)

No additional information available

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lithium sulfate (10377-4	48-7)				
No additional information available					
imidazole (288-32-4)					
No additional information available					
8.2. Appropriate engineering controls					
Appropriate engineering con	Appropriate engineering controls : Ensure good ventilation of the work station.				
Environmental exposure cor	trols :	Avoid release to the environmer	it.		
8.3. Individual protection	on measures/Personal p	protective equipment			
Hand protection:					
Protective gloves					
Туре	Material	Permeation Thickness (mm) Penetration		Penetration	
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)	2 (< 1.5)		2 (< 1.5)
Eye protection:					
Safety glasses					
Type Field of application		Field of application	Characteristics		S
Safety glasses		Droplet		clear, With side	shields
Skin and body protection:					
Wear suitable protective clothing					
Туре					
Lab coat					
Respiratory protection:					
[In case of inadequate vent	[In case of inadequate ventilation] wear respiratory protection.				

Personal protective equipment symbol(s):



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

9.1. Information on basic physical and	chemical properties	
Physical state	: Liquid	
Color	: milky	
Odor	: None	
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	

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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	: Soluble in water.
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

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 (dermal) :	Not classified Not classified Not classified	
lithium sulfate (10377-48-7)		
LD50 oral rat	580 mg/kg rat	
ATE US (oral)	580 mg/kg body weight	
imidazole (288-32-4)		
LD50 oral	960 mg/kg	
ATE US (oral)	500 mg/kg body weight	

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Skin corrosion/irritation	Causes skin irritation.
lithium sulfate (10377-48-7)	
рН	8 (4 %)
Serious eye damage/irritation	Causes serious eye irritation.
lithium sulfate (10377-48-7)	
рН	8 (4 %)
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	May damage fertility or the unborn child.
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Viscosity, kinematic	No data available
Symptoms/effects after skin contact	Irritation.
Symptoms/effects after eye contact	Eye irritation.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
imidazole (288-32-4)	
NOEC chronic algae	25 mg/l

# 12.2. Persistence and degradability

lithium sulfate (10377-48-7)	
Persistence and degradability	Biodegradability:Not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

## 12.3. Bioaccumulative potential

lithium sulfate (10377-48-7)	
Bioaccumulative potential	Not established.

## 12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

# Safety Data Sheet

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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 / TDG / IMDG / IATA	
14.1. UN number	
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
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)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT Not applicable	
TDG Not applicable	
IMDG Not applicable	
ΙΑΤΑ	

Not applicable

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 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**

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
lithium sulfate	10377-48-7	Not present	-	
imidazole	288-32-4	Not present	-	

15.2. International regulations

#### CANADA

No additional information available

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

15.3. US State regulations

No additional information available

# SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 3/14/2022

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.



# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 12/19/2017 Revision date: 3/14/2022 Supersedes: 12/19/2017 Version: 1.0

# **SECTION 1: Identification**

1.1. Identification	
Product form Product name Product code	: Mixture : L-Arginine/Urea/Ammonia Assay Kit (Bottle 6) : K-LARGE (Bottle 6)
1.2. Recommended use and restrictions of	n use
Use of the substance/mixture	: Use as laboratory reagent
1.3. Supplier	
Manufacturer Megazyme Bray Business Park Bray, County Wicklow, A98 YV29 Ireland T +353 12861220 - F +353 12861264 <u>cs@megazyme.com</u> - <u>www.megazyme.com</u>	
1.4. Emergency telephone number	
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazard(s) identification	ーン莆村
2.1. Classification of the substance or mix	kture
GHS US classification Not classified	
2.2. GHS Label elements, including preca	utionary statements
GHS US labeling	
No labeling applicable	
2.3. Other hazards which do not result in a	classification
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
No additional information available	
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

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **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.
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 chem	nical	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Special protective equipment and prec	autio <mark>ns for fire-fighters</mark>	
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 equipm	ent 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 an	nd cleaning up		
Methods for cleaning up : Other information :	Take up liquid spill into absorbent material. Dispose of materials or solid residues at an authorized site.		

### 6.4. Reference to other sections

For further information refer to section 13.

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 7: Handling and storage					
7.1. Precautions for safe handling					
Precautions for safe handlin 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	e storage, including any	/ incompatibilities			
Storage conditions	:	: Store in a well-ventilated place. Keep cool.			
SECTION 8: Exposu	re controls/personal	protection			
8.1. Control parameters	S				
L-Arginine/Urea/Ammo	onia Assay Kit (Bottle 6	)			
No additional information a	vailable				
8.2. Appropriate engine	eering controls				
	Appropriate engineering controls       : Ensure good ventilation of the work station.         Environmental exposure controls       : Avoid release to the environment.				
8.3. Individual protection	on measures/Personal	protective equipment			
Hand protection:		ビリ無法	ti i		
Protective gloves			Y.		
Туре	Material	Permeation	Thickness (m	m)	Penetration
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)	
Eye protection:					
Safety glasses					
Туре		Field of application		Characteristic	s
Safety glasses		Droplet		clear, With side	e shields
Skin and body protection	1:				
Wear suitable protective clothing					
Туре					
Lab coat					
Respiratory protection:					
In case of insufficient ventil	In case of insufficient ventilation, wear suitable respiratory equipment				
Personal protective equipment symbol(s):					



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SECTION 9: Physical and chemical p	roperties	
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Color	: Colorless	
Odor	: None	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Not applicable.	
Vapor pressure	: No data available	
Relative vapor density at 20°C	: No data available	
Relative density	: No data available	
Solubility	: Soluble in water.	
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

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.

## Safety Data Sheet

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# SECTION 11: Toxicological information

: Not classified
: Not classified
: No data available

SECTION 12: Ecological information
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12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

# 12.1. Toxicity

Ecology - general

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

5	蛐	놖님
		ΛĽ

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 information**

### In accordance with DOT / TDG / IMDG / IATA

#### 14.1. UN number

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

: Not applicable : Not applicable

- : Not applicable
  - : Not applicable

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14.2. UN proper shipping name		
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	
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)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	
14.5. Environmental hazards		
Other information	: No supplementary information available.	
14.6. Special precautions for user		
DOT Not applicable		
TDG Not applicable		
IMDG Not applicable		
IATA Not applicable		
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		

# SECTION 15: Regulatory information

## **15.1. US Federal regulations**

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA): No data available

## 15.2. International regulations

#### CANADA

No additional information available

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#### **EU-Regulations**

No additional information available

### **National regulations**

No additional information available

15.3. US State regulations

No additional information available

## **SECTION 16: Other information**

### according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 3/14/2022

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.

