

Ethanol Assay Kit

Kit Safety Information Sheet (SIS)

Issue date (US): 12/5/2017 Revision date (US): 4/11/2022 Supersedes (US): 1/21/2020 Version (US): 1.1

SECTION 1: Kit identification	
1.1 Kit identifier	
Product name Product code	: Ethanol Assay Kit : K-ETOH

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
Ethanol Assay Kit (Bottle 1)	Buffer		1	pcs (pieces)	Eye Irrit. 2, H319
Ethanol Assay Kit (Bottle 3)	Reagent		1	pcs (pieces)	Repr. 1B, H360
Ethanol Assay Kit (Bottle 4)	Reagent		1	pcs (pieces)	Resp. Sens. 1, H334
Ethanol Assay Kit (Bottle 2)	Reagent		1	pcs (pieces)	Not classified
Ethanol Assay Kit (Bottle 5)	Reagent		1	pcs (pieces)	Not classified

SECTION 4: General advice

No data available

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

SECTION 6: First aid measures	
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
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

: Treat symptomatically

Other medical advice or treatment

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SECTION 7: Fire fighting measures	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment Self-contained breathing apparatus Complete protective clothing
Hazardous decomposition products in case of fire	: 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)	 Not applicable Not applicable Not applicable Not applicable Not applicable
8.3. 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
8.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	 Not applicable Not applicable Not applicable Not applicable
8.5. Environmental hazards	
Other information	: No supplementary information available.
8.6. Special precautions for user	
DOT No data available	
TDG No data available	
IMDG No data available	
IATA No data available	

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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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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 12/5/2017 Revision date: 3/11/2022 Supersedes: 12/5/2017 Version: 1.0

SECTION 1: Identification

1.1. Identification	
Product form Product name Product code	: Mixture : Ethanol Assay Kit (Bottle 1) : K-ETOH (Bottle 1)
1.2. Recommended use and restrictions	on use
Use of the substance/mixture	: Use as laboratory reagent
1.3. Supplier	
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]
2.1. Classification of the substance or m GHS US classification	ixture
Serious eye damage/eye irritation Category 2	Causes serious eye irritation
2.2. GHS Label elements, including preca	autionary statements
GHS US labeling Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	 Warning Causes serious eye irritation Wash hands thoroughly after handling. Wear eye protection, protective clothing, protective gloves
	IF IN EYES: 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.
2.3. Other hazards which do not result in	and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

tetrapotassium pyrophosphate tetrapotassium salt / phosphosol, anhydrous / potassium diphosphate, anhydrous / potassium pyrophosphate, anhydrous / potassium pyrophosphate, anhydrous / potassium pyrophosphate, anhydrous / potassium pyrophosphate, anhydrous / potassium pyrophosphate, anhydrous / potassium pyrophosphate, anhydrous / potassium pyrophosphate, anhydrous /	Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
pyrophosphoric acid, tetrapotassium salt, anhydrous / tetrapotassium diphosphate, anhydrous / tetrapotassium diphosphorate, anhydrous / tetrapotassium pyrophosphate / TKPP (= tetrapotassium pyrophosphate), anhydrous	tetrapotassium pyrophosphate	tetrapotassium salt / phosphosol, anhydrous / potassium diphosphate, anhydrous / potassium pyrophosphate, anhydrous / pyrophosphoric acid, tetrapotassium salt, anhydrous / tetrapotassium diphosphate, anhydrous / tetrapotassium diphosphorate, anhydrous / tetrapotassium pyrophosphate / TKPP (= tetrapotassium pyrophosphate),	CAS-No.: 7320-34-5	40 – 50	Eye Irrit. 2, H319

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 after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	 Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. 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. Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and ef	fects (acute and delayed)
Symptoms/effects after eye contact	: Eye irritation.
4.3. Immediate medical attention and	special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing n	nedia
Suitable extinguishing media :	Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the chemic	al
Hazardous decomposition products in case of fire :	Toxic fumes may be released.
5.3. Special protective equipment and precau	itions for fire-fighters
Protection during firefighting :	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measure	res
6.1. Personal precautions, protective equip	ment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up 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.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including a	any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	
Ethanol Assay Kit (Bottle 1)	
No additional information available	

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tetrapotassium pyrophosphate (7320-34-5)					
No additional information available					
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 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					
Туре	Type Field of application Characteristics		S		
Safety glasses	lasses Droplet		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 Color Odor	 Liquid clear There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Odourless 	
Odor threshold pH Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1)	 No data available No data available Not applicable No data available 	

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Flammability (solid, gas) Vapor pressure	: Not applicable. : No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility Partition coefficient n-octanol/water (Log Pow)	: Soluble in water.
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	
tetrapotassium pyrophosphate (7320-34-5)		
LD50 oral	4640 mg/kg body weight	
LD50 dermal rabbit	> 4640 mg/kg rabbit	
LD50 dermal	> 4640 mg/kg body weight	
LC50 Inhalation - Rat (Dust/Mist)	> 1100 mg/l	
Skin corrosion/irritation :	Not classified	

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tetrapotassium pyrophosphate (7320-	-34-5)
рН	10.2 (1.0 %)
Serious eye damage/irritation	: Causes serious eye irritation.
tetrapotassium pyrophosphate (7320-	-34-5)
рН	10.2 (1.0 %)
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.

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.

tetrapotassium pyrophosphate (7320-34-5)	
LC50 - Fish [1]	> 750 mg/l (LC50; 48 h)
EC50 - Other aquatic organisms [1]	> 100 mg/l waterflea

12.2. Persistence and degradability

tetrapotassium pyrophosphate (7320-34-5)	
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

tetrapotassium pyrophosphate (7320-34-5)	
Partition coefficient n-octanol/water (Log Pow)	Not applicable
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

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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 Not applicable UN-No. (TDG) Not applicable UN-No. (IMDG) Not applicable UN-No. (IATA) Not applicable 14.2. UN proper shipping name Proper Shipping Name (DOT) : Not applicable Proper Shipping Name (TDG) Not applicable 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 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) Not applicable Packing group (IMDG) Not applicable Packing group (IATA) Not applicable 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
tetrapotassium pyrophosphate	7320-34-5	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 : 3/11/2022

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

SECTION 1. Identification	
1.1. Identification	
Product form Product name Product code	 Mixture Ethanol Assay Kit (Bottle 2) K-ETOH (Bottle 2)
1.2. Recommended use and restrictions	on use
Use of the substance/mixture	: Use as laboratory reagent
1.3. Supplier	
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	
2.1. Classification of the substance or m	lixture
GHS US classification Not classified	
2.2. GHS Label elements, including prec	autionary statements
GHS US labeling No labeling applicable	
2.3. Other hazards which do not result in	n 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

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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.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.

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

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures					
5.1. Suitable (and unsuitable) extinguishing media					
Suitable extinguishing media	: Water spray. Dry powder. Foam.				
5.2. Specific hazards arising from the chen	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 measur	es
6.1. Personal precautions, protective equip	ment and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment	and cleaning up
Methods for cleaning up Other information	 Mechanically recover the product. 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 and storage 7.1. Precautions for safe handling Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Hygiene measures · Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 7.2. Conditions for safe storage, including any incompatibilities : Store in a well-ventilated place. Keep cool. Storage conditions **SECTION 8: Exposure controls/personal protection** 8.1. Control parameters Ethanol Assay Kit (Bottle 2) No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls : Ensure good ventilation of the work station. Environmental exposure controls : Avoid release to the environment. 8.3. Individual protection measures/Personal protective equipment Hand protection: Protective gloves Material Permeation Penetration Туре Thickness (mm) Disposable gloves Nitrile rubber (NBR) 3 (> 60 minutes) 2 (< 1.5) Eye protection: Safety glasses **Field of application** Characteristics Туре Safety glasses Dust 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):





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SECTION 9: Physical and chemical properties

9.	1. In	format	tion on	basic	phys	ica	and	C	nemi	ca	prop	erties	
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Physical state	:	Solid
Color	:	No data available
Odor	:	No data available
Odor threshold	:	No data available
рН	:	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.

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.

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SECTION 12: Ecological information

:	Not classified
:	Not classified
:	Not applicable

CECHCA 12. Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Disposal methods	

Waste treatment methods

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

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

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

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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)	 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				
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 Ann	ex II of MARPOL 73/7	3 and the IBC Code			
Not applicable					
SECTION 15: Regulatory information	1				
15.1. US Federal regulations					
Commercial status of components according to the	ne United States Environm	ental Protection Agency	s Toxic Substances C	Control Act (TSCA):	
Namo	CAS-No	Listing	Commorcial	Flage	

Name	CAS-No.	Listing	Commercial status	Flags
Ethanol Assay Kit (Bottle 2)		Not present	-	

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15.2.	Intern	ational	reau	ations

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 : 3/11/2022

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: 12/8/2017 Revision date: 3/11/2022 Supersedes: 12/8/2017 Version: 1.0

SECTION 1: Identification

SECTION 1. Identification	
1.1. Identification	
Product form Product name Product code	: Mixture : Ethanol Assay Kit (Bottle 3) : K-ETOH (Bottle 3)
1.2. Recommended use and restrictions	on use
Use of the substance/mixture	: Use as laboratory reagent
1.3. Supplier	
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]
2.1. Classification of the substance or m	lixture
Reproductive toxicity Category 1B	May damage fertility or the unborn child
2.2. GHS Label elements, including prec	autionary statements
GHS US labeling Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	 Danger May damage fertility or the unborn child Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection If exposed or concerned: Get medical advice/attention.
	Store locked up.
2.3. Other hazards which do not result in	Store locked up.

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

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

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
imidazole		CAS-No.: 288-32-4	0.1 – 1	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 First-aid measures after skin contact	 IF exposed or concerned: Get medical advice/attention. Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water.
First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms and ef	 Rinse eyes with water as a precaution. Call a poison center/doctor/physician if you feel unwell.

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	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 measures			
6.1. Personal precautions, protecti	ve equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.		

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6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

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

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

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	ng 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	
Ethanol Assay Kit (Bottle 3)	
No additional information available	
imidazole (288-32-4)	
No additional information available	

8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls : Ensure good ventilation of the work station.

: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:				
Protective gloves				
Туре	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)
Eye protection:				
Safety glasses				

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Type Field of application		Characteristics		
Safety glasses	Droplet	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. [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 Color Odor Odor threshold pH Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Vapor pressure Relative vapor density at 20°C Relative density Solubility Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature Decomposition temperature	 Liquid milky Mixture contains one or more component(s) which have the following odour: No data available
5	
o 1	
Viscosity, kinematic Viscosity, dynamic	 No data available No data available
Explosion limits Explosive properties Oxidizing properties	 No data available No data available 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.

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Not classified	
imidazole (288-32-4)		
LD50 oral	960 mg/kg	
ATE US (oral)	500 mg/kg body weight	
	Not classified Not classified	
·····, ····, ·····	Not classified Not classified Not classified	
Reproductive toxicity : STOT-single exposure : STOT-repeated exposure : Aspiration hazard :	May damage fertility or the unborn child. Not classified Not classified Not classified	
Viscosity, kinematic :	No data available	

SECTION 12: Ecological information 12.1. Toxicity Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. imidazole (288-32-4) NOEC chronic algae 25 mg/l 12.2. Persistence and degradability

No additional information available

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12.3. Bioaccumulative potential
No additional information available
12.4. Mobility in soil
No additional information available
12.5. Other adverse effects
No additional information available
SECTION 13: Disposal considerations

13.1. Disposal methods

SECTION 14: Transport information

Waste treatment methods

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

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
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 Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.

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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

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
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

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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.



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 12/5/2017 Revision date: 3/11/2022 Supersedes: 12/5/2017 Version: 1.0

SECTION 1: Identification

1.1. Identification	
Product form Product name Product code	 Mixture Ethanol Assay Kit (Bottle 4) K-ETOH (Bottle 4)
1.2. Recommended use and restrictions	on use
Use of the substance/mixture	: Use as laboratory reagent
1.3. Supplier	
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	
2.1. Classification of the substance or m	nixture
GHS US classification	
Respiratory sensitization, Category 1	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
2.2. GHS Label elements, including prec	autionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	 Danger May cause an allergy or asthma symptoms or breathing difficulties if inhaled Avoid breathing mist, spray, vapors.

[In case of inadequate ventilation] wear respiratory protection. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor, a POISON CENTER. Dispose of contents/container to

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

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SECTION 3: Composition/Information on ingredients 3.1. Substances Not applicable 3.2. Mixtures **Product identifier** Name Common % **GHS US classification** Name (Synonyms) Alcohol dehydrogenase CAS-No.: 9031-72-5 Resp. Sens. 1, H334 1 – 5 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 : Call a poison center/doctor/physician if you feel unwell. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor. 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) Symptoms/effects after inhalation : May cause an allergy or asthma symptoms or breathing difficulties if inhaled.

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 cher	nical	
Hazardous decomposition products in case of fire : Toxic fumes may be released.		
5.3. Special protective equipment and prec	cautions 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, protectiv	e equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	

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6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for con	tainment and cleaning up	
Methods for cleaning up: Take up liquid spill into absorbent material.Other information: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections		
For further information refer to section 13		

SECTION 7: Handling and storage	ge
7.1. Precautions for safe handling	
Precautions for safe handling	 Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inc	luding any incompatibilities

Storage conditions

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

SECTION 8: Exposure controls/personal protection					
8.1. Control parameters					
Ethanol Assay Kit (Bo	ttle 4)				
No additional information a	vailable				
Alcohol dehydrogenas	se (9031-72-5)				
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	8.3. Individual protection measures/Personal protective equipment				
Hand protection:					
Protective gloves	Protective gloves				
Туре	Material	Permeation Thickness (mm) Penetration		Penetration	
Disposable gloves	Nitrile rubber (NBR)	itrile rubber (NBR) 3 (> 60 minutes) 2 (< 1.5)		2 (< 1.5)	
Eye protection:					
Safety glasses					
Type Field of application Characteristics					

Safety glasses

Droplet

With side shields

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Skin and body protection:	
Wear suitable protective clothing	
Туре	
Lab coat	
Respiratory protection:	
In case of insufficient ventilation, wear suitable respiratory equipment. [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	: Mixture contains one or more component(s) which have the following odour:
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.

: Not classified

:

SECTION 11: Toxicological information		
11.1. Information on toxicological e	ffects	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	

Aspiration hazard Viscosity, kinematic

- Symptoms/effects after inhalation
- No data available : May cause an allergy or asthma symptoms or breathing difficulties if inhaled.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
No additional information available	

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 Not applicable UN-No. (TDG) Not applicable UN-No. (IMDG) Not applicable UN-No. (IATA) Not applicable 14.2. UN proper shipping name Proper Shipping Name (DOT) : Not applicable Proper Shipping Name (TDG) Not applicable 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 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) Not applicable Packing group (IMDG) Not applicable

 14.5. Environmental hazards

 Other information
 : No supplementary information available.

Not applicable

14.6. Special precautions for user

DOT

Not applicable

Packing group (IATA)

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
Alcohol dehydrogenase	9031-72-5	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 : 3/11/2022

Safety Data Sheet (SDS), USA

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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 12/5/2017 Revision date: 3/11/2022 Supersedes: 12/5/2017 Version: 1.0

SECTION 1: Identification

1.1. Identification	
Product form Product name Product code	: Mixture : Ethanol Assay Kit (Bottle 5) : K-ETOH (Bottle 5)
1.2. Recommended use and restrictions of	on use
Use of the substance/mixture	: Use as laboratory reagent
1.3. Supplier	
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	
2.1. Classification of the substance or mi	xture
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	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

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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	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.	

SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area.			
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".			
6.2. Environmental precautions				
Avoid release to the environment.				
6.3. Methods and material for containment and cleaning up				
Methods for cleaning up 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 saf	fe handling				
Precautions for safe handlin Hygiene measures	g :	 Ensure good ventilation of the work station. Wear personal protective equipment. 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	v incompatibilities			
Storage conditions	:	: Store in a well-ventilated place. Keep cool.			
SECTION 8: Exposur	e controls/personal	protection			
8.1. Control parameters	3				
Ethanol Assay Kit (Bot	tle 5)				
No additional information a					
8.2. Appropriate engine	ering 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 p	protective equipment			
Hand protection:					
Protective gloves					
Туре	Material	Permeation	Thickness (m	m)	Penetration
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)	2 (< 1.5)		2 (< 1.5)
Eye protection:					
Safety glasses				-	
Туре		Field of application		Characteristics	
Safety glasses	Droplet With side shields		ds		
Skin and body protection:					
Wear suitable protective clothing					
Туре					
Lab coat					
Respiratory protection:					
In case of insufficient ventilation, wear suitable respiratory equipment					



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	clear
Odor	: Mixture contains one or more component(s) which have the following odour:
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.

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

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
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
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)	 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 Not applicable
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 Anne	ex 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): No data available

15.2. International regulations

CANADA

No additional information available

Safety Data Sheet

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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 : 3/11/2022

Safety Data Sheet (SDS), USA

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