

Kit Safety Information Sheet

Date of issue: 03/06/2013

Revision date: 09/03/2020

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SECTION 1: Kit ident	Incation						
			(400 A L E	0			
Product name Product code		Acetic Acid Assay Kit K-ACETAF	(ACS Analyser Form	at)			
.2. Details of the sup	oplier of the KIT safety i	information sneet					
/legazyme Bray Business Park							
\98 YV29 Bray - Ireland ⁻ +353 12861220 - F +353 1	12861264						
s@megazyme.com - www.							
ECTION 2: General	information						
COHON 2. General	mormation						
his Kit should be handled in	n accordance with good la	aboratory practices a	nd appropriate perso	nal protective	equipment s	should be used	
ECTION 3: Kit conte							
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lo substance or mixture inc	luded in the following Kit		dous according to Re	gulation (EC)	No. 1272/20	008 [CLP] and t	nerefore
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SECTION 6: First aid measures First-aid measures after eye contact

First-aid measures after eye contact	: Rinse eyes with water as a precaution
First-aid measures after ingestion	: Call a poison center or a doctor 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
Other medical advice or treatment	: Treat symptomatically
SECTION 7: Fire fighting measure	S
Protection during firefighting	: Do not attempt to take action without suitable protective equipment

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SECTION 8: Other information

No data available



Megazyme	(Bottle 5)Safety Data Sheetaccording to Regulation (EU) 2015/830Date of issue: 03/06/2013Revision date: 04/03/2019Supersedes: 15/11/2017Version: 1.4
SECTION 1: Identification of	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Acetic Acid Assay Kit (ACS Analyser Format) (Bottle 5)
Product code	: K-ACETAF (Bottle 5)
1.2. Relevant identified uses	s of the substance or mixture and uses advised against
1.2.1. Relevant identified uses	b and the second se
Main use category	: Professional use
Use of the substance/mixture	: Use as laboratory reagent
1.2.2. Uses advised against No additional information available	
1.3. Details of the supplier of	f the safety data sheet
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 1286126 cs@megazyme.com - www.megazy	
1.4. Emergency telephone nu	umber
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazards identi	ification
2.1. Classification of the sub	
Classification asserting to Denut	lation (EC) No. 1272/2008 [CLP]
Not classified	
Not classified Adverse physicochemical, human	n health and environmental effects s not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety
Not classified Adverse physicochemical, human To our knowledge, this product does	n health and environmental effects
Not classified Adverse physicochemical, human To our knowledge, this product does practice.	n health and environmental effects s not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety
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This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

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 or a doctor if you feel unwell.

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according to Regulation (EU) 2015/830

4.2. Most important symptoms and effect	ts, both acute and delayed
No additional information available	
	l attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the sul Hazardous decomposition products in case of fire	b stance or mixture : Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective eq	uipment 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 containme	ent and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 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 storage, including	ng any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pers	onal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls:	
Ensure good ventilation of the work station.	

Hand protection:

Protective gloves

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)	EN 374

Eye protection:

Safety glasses

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Туре	Use	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	

SECTION 10: Stability and reactivity

10.1. Reactivity

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).

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according to Regulation (EU) 2015/830

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 in	formation
11.1. Information on toxicologica	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 sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	h
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short- term (acute)	: Not classified
Hazardous to the aquatic environment, long- term (chronic)	: Not classified
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	ent
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideratio	ns
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / A	DN
ADR	ΙΑΤΑ
14.1. UN number	
Not applicable	Not applicable
14.2. UN proper shipping name	

14.3.

14.4

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ADR	ΙΑΤΑ		
14.5. Environmental hazards			
Not applicable	Not applicable		
No supplementary information available			

14.6. Special precautions for user

- Overland transport

Not applicable

- Air transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2.Chemical safety assessmentNo chemical safety assessment has been carried out

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SECTION 16: Other information

SDS EU (REACH Annex II)

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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	Date of issue: 03/06/2013	Revision date: 15/11/2017	Supersedes: 14/03/2017	Version: 1.3
SECTION 1: Identification of	of the substance/mixtu	e and of the company	undertaking	
1.1. Product identifier				
Product form	: Mixture			
Product name	: Acetic Acid As	say Kit (ACS Analyser Forma	t) (Bottle 4)	
Product code	: K-ACETAF (B	ottle 4)		
1.2. Relevant identified uses	of the substance or mixture	and uses advised against		
1.2.1. Relevant identified uses		and abob advised against		
Main use category	: Professional u	se		
Use of the substance/mixture	: Use as labora			
1.2.2. Uses advised against				
No additional information available	the effets determined			
1.3. Details of the supplier of	the safety data sheet			
Manufacturer Megazyme				
Bray Business Park				
A98 YV29 Bray - Ireland T +353 12861220 - F +353 1286126	Δ			
cs@megazyme.com - www.megazym				
1.4. Emergency telephone nu				
Emergency number		0 [9 am to 5 pm GMT - Monda	ay to Friday]	
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SECTION 2: Hazards identit	fication			
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2.1. Classification of the sub				
Classification according to Regula		P]		
		P]		
Classification according to Regula Not classified	ation (EC) No. 1272/2008 [CL			
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This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.

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according to Regulation (EU) 2015/830	
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed
No additional information available	
4.3. Indication of any immediate medica	al attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the su Hazardous decomposition products in case of	: Toxic fumes may be released.
fire	. Toxic fullies may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release mea	sures
	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".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containm	ent and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: 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, includi	ng any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pers	onal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls:	
Ensure good ventilation of the work station.	
Hand protection:	
Protective gloves	

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)	EN 374

Eye protection:

Safety Data Sheet

according to Regulation (EU) 2015/830

Туре	Use	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	I chemical properties	
Physical state	: Liquid	
Colour	: Colourless.	
Odour	: No data available	
Odour threshold	: No data available	
pH	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Not applicable	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: No data available	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	
9.2. Other information		
No additional information available		

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

Contact with acids liberates very toxic gas.

10.4. Conditions to avoid

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

Safety Data Sheet

according to Regulation (EU) 2015/830

10.5.	Incompatible materials
Acids.	
10.6.	Hazardous decomposition products

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

SECTION 11: Toxicological i	nformation
11.1. Information on toxicologic	al 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 sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: The product is not considered harmfu effects in the environment.	I to aquatic organisms nor to cause long-term adverse
Hazardous to the aquatic environment, short- term (acute)	: Not classified	
Hazardous to the aquatic environment, long- term (chronic)	: Not classified	
12.2. Persistence and degradability		
No additional information available		
12.3. Bioaccumulative potential		
No additional information available		
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessme	t	
No additional information available		
12.6. Other adverse effects		
No additional information available		
SECTION 13: Disposal consideratio		
13.1. Waste treatment methods		
Waste treatment methods	: Dispose of contents/container in acco	rdance with licensed collector's sorting instructions.
SECTION 14: Transport information		
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A	N	
ADR	IATA	
14.1. UN number Not applicable	Not applicable	
14.2. UN proper shipping name	···· •••••••••••••••••••••••••••••••••	
Not applicable	Not applicable	

Not applicable

Not applicable

Transport hazard class(es)

Packing group

14.3.

14.4.

Not applicable

Not applicable

Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	ΙΑΤΑ		
14.5. Environmental hazards			
Not applicable	Not applicable		
No supplementary information available			

14.6. Special precautions for user

- Overland transport

Not applicable

- Air transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

No chemical safety assessment has been carried out	
SECTION 16: Other information	

Full text of H- and EUH-statements:

 EUH032
 Contact with acids liberates very toxic gas.

SDS EU (REACH Annex II)

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 Regulation (EU) 2015/830

Mcgazyme			according to Regulation (EU) 2015/830				
		Date of issue: 03/06/2013	Revision date: 09/03/2020	Supersedes: 15/11/2017	Version: 1.4		
		of the substance/mixtu	re and of the company	/undertaking			
1.1.	Product identifier	•••					
Produc		: Mixture					
Produc			ssay Kit (ACS Analyser Forma	t) (Bottle 3)			
Product	t code	: K-ACETAF (b	ottle 3)				
1.2.	Relevant identified uses	of the substance or mixture	and uses advised against				
1.2.1.	Relevant identified uses	i					
Main us	e category	: Professional u	ISE				
Use of	the substance/mixture	: Use as labora	tory reagent				
1.2.2.	Uses advised against						
No add	itional information available						
1.3.	Details of the supplier of	f the safety data sheet					
A98 YV T +353	usiness Park '29 Bray - Ireland 12861220 - F +353 1286126 gazyme.com - <u>www.megazy</u>						
1.4.	Emergency telephone n	umber					
Emerge	ency number	: +353 1286122	20 [9 am to 5 pm GMT - Monda	ay to Friday]			
SECT	ION 2: Hazards identi	fication					
2.1.	Classification of the sub						
Classif	ication according to Regul	ation (EC) No. 1272/2008 [CL	P]				
Not cla	ssified						
Advers	e physicochemical, humar	n health and environmental e	ffects				
To our practice		s not present any particular risł	, provided it is handled in acc	ordance with good occupation	nal hygiene and safety		
2.2.	Label elements						
Labelli	ng according to Regulatior	n (EC) No. 1272/2008 [CLP]					
EUH-st	atements	: EUH032 - Co	ntact with acids liberates very	toxic gas.			
Labelling according to: exemption for inner packaging where the contents do not exceed 10ml							
No labelling required							
2.3. Other hazards							
No additional information available							
SECTION 3: Composition/information on ingredients							
3.1. Substances							
Not applicable							
3.2.	3.2. Mixtures						

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

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.

Safety Data Sheet

according to Regulation (EU) 2015/830					
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.				
4.2. Most important symptoms and effects, both acute and delayed					
No additional information available					
4.3. Indication of any immediate medical attention and special treatment needed					
Treat symptomatically.					
SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.				
5.2. Special hazards arising from the su Hazardous decomposition products in case of	: Toxic fumes may be released.				
fire	. Toxic futiles filay be released.				
5.3. Advice for firefighters					
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.				
SECTION 6: Accidental release mea	isures				
	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				
Protective equipment	refer to section 8: "Exposure controls/personal protection".				
6.2. Environmental precautions					
Avoid release to the environment.					
6.3. Methods and material for containm	ent and cleaning up				
Methods for cleaning up	: Take up liquid spill into absorbent material.				
Other information	: Dispose of materials or solid residues at an authorized site.				
6.4. Reference to other sections					
For further information refer to section 13.					
SECTION 7: Handling and storage					
7.1. Precautions for safe handling					
Precautions for safe handling	: 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, includ	ing any incompatibilities				
Storage conditions	: Store in a well-ventilated place. Keep cool.				
7.3. Specific end use(s)					
No additional information available					
SECTION 8: Exposure controls/pers	sonal protection				
8.1. Control parameters					
No additional information available					
8.2. Exposure controls					
Appropriate engineering controls:					
Ensure good ventilation of the work station.					
Hand protection:					
Nitrile rubber gloves					

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)	EN 374

Eye protection:

Safety glasses

Safety Data Sheet

according to Regulation (EU) 2015/830

Туре	Use	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Disposable gloves, Lab coat, Goggles	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



Environmental exposure controls:

Avoid release to the environment.

9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	: No data available	
Odour	: No data available	
Odour threshold	: No data available	
pH	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Not applicable	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: No data available	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data 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

Contact with acids liberates very toxic gas.

10.4. Conditions to avoid

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

Safety Data Sheet

according to Regulation (EU) 2015/830

10.5.	Incompatible materials
Acids.	
10.6.	Hazardous decomposition products

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

SECTION 11: Toxicological i	nformation
11.1. Information on toxicologic	al 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 sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information				
12.1. Toxicity				
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.			
Hazardous to the aquatic environment, short-term (acute)	: Not classified			
Hazardous to the aquatic environment, long- term (chronic)	: Not classified			
12.2. Persistence and degradability				
No additional information available				
12.3. Bioaccumulative potential				
No additional information available				
12.4. Mobility in soil				
No additional information available				
12.5. Results of PBT and vPvB assessme	ent			
No additional information available				
12.6. Other adverse effects				
No additional information available				
SECTION 13: Disposal consideration	ns			
13.1. Waste treatment methods				
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.			
SECTION 14: Transport information				
In accordance with ADR / RID / IMDG / IATA / ADN				
ADR	IATA			
14.1. UN number				
Not applicable	Not applicable			
14.2. UN proper shipping name				
Not applicable	Not applicable			

Not applicable

Not applicable

14.3. Tran Not applicable

14.4.

Not applicable

Transport hazard class(es)

Packing group

Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	ΙΑΤΑ	
14.5. Environmental hazards		
Not applicable	Not applicable	
No supplementary information available		

14.6. Special precautions for user

- Overland transport

Not applicable

- Air transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Acetic Acid Assay Kit (ACS Analyser Format) (Bottle 3)
<i>F</i>

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:	
EUH032	Contact with acids liberates very toxic gas.

SDS EU (REACH Annex II)

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.



	(Bottle 2) Safety Data Shee	+		,
Megazyme	according to Regulation (EU) 2 Date of issue: 03/06/2013		Supersedes: 15/11/2017	Version: 1.4
SECTION 1: Identification of	the substance/mixtur	e and of the company	/undertaking	
1.1. Product identifier				
Product form	: Mixture			
Product name	: Acetic Acid As	say Kit (ACS Analyser Forma	it) (Bottle 2)	
Product code	: K-ACETAF (B	ottle 2)		
1.2. Relevant identified uses of	f the substance or mixture	and uses advised against		
1.2.1. Relevant identified uses				
Main use category	: Professional u	se		
Use of the substance/mixture	: Use as laborat	tory reagent		
1.2.2. Uses advised against				
No additional information available				
1.3. Details of the supplier of t	he safety data sheet			
Manufacturer Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 <u>cs@megazyme.com</u> - <u>www.megazym</u>	e.com			
1.4. Emergency telephone nun	nber			
Emergency number	: +353 1286122	0 [9 am to 5 pm GMT - Mond	ay to Friday]	
SECTION 2: Hazards identified	cation			
2.1. Classification of the subst	ance or mixture			
Classification according to Regulat Not classified	ion (EC) No. 1272/2008 [CL	P]		
Adverse physicochemical, human h To our knowledge, this product does n practice.			ordance with good occupatior	al hygiene and safet
2.2. Label elements				
Labelling according to Regulation (
EUH-statements		ety data sheet available on re	•	
Labelling according to: exemption f	or inner packaging where	the contents do not exceed	10ml	
No labelling required				
2.3. Other hazards				
No additional information available				
SECTION 3: Composition/inf	ormation on ingredie	nts		
3.1. Substances				
Not applicable				
3.2. Mixtures				

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Coenzyme A, trilithium salt, CoA	(CAS-No.) 18439-24-2 (EC-No.) 242-317-9	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of H-statements: see section 16

Safety Data Sheet

according to Regulation (EU) 2015/830

according to Regulation (EU) 2015/830	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Get medical advice/attention 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.
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 or a doctor if you feel unwell.
4.2. Most important symptoms and ef	fects, both acute and delayed
Symptoms/effects after eye contact	: Eye irritation.
4.3. Indication of any immediate medi	cal attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Special hazards arising from the	substance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release me	easures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. 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 contain	ment and cleaning up
Methods for cleaning up	: Mechanically recover the product.
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. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
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, inclu	ding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pe	rsonal protection
8.1. Control parameters	
No additional information available	

No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Safety glasses. Gloves. Protective clothing.

Hand protection:

Protective gloves

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)	EN 374

Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses			

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Disposable gloves, Lab coat, Safety glasses	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Dust mask	Туре Р1	Protection for Solid particles	EN 143, EN 149



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	chemical properties	
Physical state	: Solid	
Colour	: No data available	
Odour	: No data available	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: Not applicable	
Boiling point	: No data available	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: Not applicable	
Solubility	: Soluble in water.	
Log Pow	: No data available	
Viscosity, kinematic	: Not applicable	

Safety Data Sheet

OFOTION 44. T

according to Regulation (EU) 2015/830

according to regulation	11 (20) 2013/030		
Viscosity, dynamic	;	: No data available	
Explosive propertie	es	: No data available	
Oxidising propertie	ès	: No data available	
Explosive limits		: Not applicable	
9.2. Other in	nformation		
No additional infor	mation available		
SECTION 10:	Stability and reactivity		
10.1. Reactivi	ity		
The product is non	n-reactive under normal condition	ns of use, storage and transport.	
10.2. Chemica	2. Chemical stability		
Stable under norm	Stable under normal conditions.		
10.3. Possibil	.3. Possibility of hazardous reactions		
No dangerous read	No dangerous reactions known under normal conditions of use.		
10.4. Conditio	4. Conditions to avoid		
None under recom	None under recommended storage and handling conditions (see section 7).		
10.5. Incompa	5. Incompatible materials		
No additional infor	mation available		
10.6. Hazardo	Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.			

SECTION 11: Toxicological informati	0	n
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 sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

SECTION 12: Ecological information	1		
12.1. Toxicity			
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.		
Hazardous to the aquatic environment, short- term (acute)	: Not classified		
Hazardous to the aquatic environment, long- term (chronic)	: Not classified		
12.2. Persistence and degradability			
No additional information available			
12.3. Bioaccumulative potential			
No additional information available			
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessme	I2.5. Results of PBT and vPvB assessment		
No additional information available			

Safety Data Sheet

according to Regulation (EU) 2015/830

12.6.	Other adverse effects	
No additional information available		
SECTION 13: Disposal considerations		tions
13.1.	Waste treatment methods	
Waste ti	eatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

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

ADR	ΙΑΤΑ
14.1. UN number	
Not applicable	Not applicable
14.2. UN proper shipping name	
Not applicable	Not applicable
14.3. Transport hazard class(es)	
Not applicable	Not applicable
14.4. Packing group	
Not applicable	Not applicable
14.5. Environmental hazards	
Not applicable	Not applicable
No supplementary i	nformation available

14.6. Special precautions for user

- Overland transport

Not applicable

- Air transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation
H335	May cause respiratory irritation.
EUH210	Safety data sheet available on request.

SDS EU (REACH Annex II)

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.



Acetic Acid Assay Kit (ACS Analyser Format)

	(Bottle 1)
Megazyme	Safety Data Sheet according to Regulation (EU) 2015/830 Date of issue: 03/06/2013 Revision date: 15/11/2017 Supersedes: 14/03/2017 Version: 1.3
SECTION 1: Identification of	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Acetic Acid Assay Kit (ACS Analyser Format) (Bottle 1)
Product code	: K-ACETAF (Bottle 1)
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Use of the substance/mixture	: Use as laboratory reagent
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of t	he safety data sheet
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazym	<u>e.com</u>
1.4. Emergency telephone num	
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazards identified	
2.1. Classification of the subst	ance or mixture
Classification according to Regulat Not classified	on (EC) No. 1272/2008 [CLP]
Adverse physicochemical, human h To our knowledge, this product does n practice.	nealth and environmental effects not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety
2.2. Label elements	
Labelling according to Regulation (
EUH-statements	: EUH032 - Contact with acids liberates very toxic gas.
2.3. Other hazards	
No additional information available	
SECTION 3: Composition/inf	ormation 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 REACH annex II

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 or a doctor if you feel unwell.		
4.2. Most important symptoms and	effects, both acute and delayed		
No additional information available			

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4.3. Indication of any immediate medical attention and special treatment needed					
Treat symptomatically.					
SECTION 5: Firefi	ghting measures				
5.1. Extinguishin					
Suitable extinguishing n	nedia	: Water spray. Dry pow	der. Foam. Carbon dioxi	de.	
5.2. Special haza	rds arising from the sul	ostance or mixture			
Hazardous decompositi fire	on products in case of	: Toxic fumes may be r	eleased.		
5.3. Advice for fir					
Protection during firefig	hting	: Do not attempt to take apparatus. Complete		protective equipment. Self	f-contained breathing
SECTION 6: Accid	dental release meas	sures			
6.1. Personal pre	cautions, protective eq	uipment and emergency	v procedures		
6.1.1. For non-eme	rgency personnel				
Emergency procedures		: Ventilate spillage area	а.		
6.1.2. For emergen	cy responders				
Protective equipment			e action without suitable p posure controls/personal	protective equipment. For protection".	further information
6.2. Environment	tal precautions				
Avoid release to the env	vironment.				
6.3. Methods and	I material for containme	ent and cleaning up			
Methods for cleaning up)	: Take up liquid spill int			
Other information		: Dispose of materials	or solid residues at an au	thorized site.	
	other sections				
For further information r					
SECTION 7: Hand					
	for safe handling				
Precautions for safe ha	ndling	•		ear personal protective ec duct. Always wash hands	
Hygiene measures		product.	noke when using this pro	ouct. Always wash hanus	aller handling the
7.2. Conditions f	or safe storage, includir	ng any incompatibilities			
Storage conditions	: Store in a well-ventila	ted place. Keep cool.		
7.3. Specific end	use(s)				
No additional informatio	n available				
SECTION 8: Expo	sure controls/pers	onal protection			
8.1. Control para					
No additional informatio					
8.2. Exposure co	ntrols				
Appropriate engineering controls:					
Ensure good ventilation of the work station.					
Hand protection:					
Protective gloves					
Type Material Permeation Thickness (mm) Penetration Standard					Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)	. ,	2 (< 1.5)	EN 374
			L	2 (1.0)	

Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

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Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



Environmental exposure controls:

Avoid release to the environment.

9.1. Information on basic physical an	d chemical properties	
Physical state	: Liquid	
Colour	: Colourless.	
Odour	: No data available	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Not applicable	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: No data available	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	
0.2 Other information		
9.2. Other information No additional information available		
SECTION 10: Stability and reactiv		

10.1. Reactivity

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

10.2.	Chemical stability
Stable u	nder normal conditions.
10.3.	Possibility of hazardous reactions
Contact	with acids liberates very toxic gas.
10.4.	Conditions to avoid
None un	der recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials
Acids.	

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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			
Skin corrosion/irritation	: Not classified			
Serious eye damage/irritation	: Not classified			
Respiratory or skin sensitisation	: Not classified			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: Not classified			
Reproductive toxicity	: Not classified			
STOT-single exposure	: Not classified			
STOT-repeated exposure	: Not classified			
Aspiration hazard	: Not classified			
SECTION 12: Ecological information				
12.1. Toxicity				
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse			
	effects in the environment.			
Hazardous to the aquatic environment, short- term (acute)	: Not classified			
Hazardous to the aquatic environment, long- term (chronic)	: Not classified			
12.2. Persistence and degradability				
No additional information available				
12.3. Bioaccumulative potential				
No additional information available				
12.4. Mobility in soil				
No additional information available				
	nt.			
12.5. Results of PBT and vPvB assessme No additional information available	iii.			
12.6. Other adverse effects				
No additional information available				
SECTION 13: Disposal consideratio	15			
13.1. Waste treatment methods				
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.			
SECTION 14: Transport information				
In accordance with ADR / RID / IMDG / IATA / A	DN			
ADR	ΙΑΤΑ			
14.1. UN number				
Not applicable	Not applicable			
14.2. UN proper shipping name Not applicable	Not applicable			
14.3 Transport hazard class(oc)				
14.3. Transport hazard class(es) Not applicable	Not applicable			

Not applicable

Not applicable

Not applicable

14.4.

14.5. Envi Not applicable

Packing group

Environmental hazards

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ADR	ΙΑΤΑ
	No supplementary information available
14.6.	Special precautions for user
- Overla	Ind transport
Not appl	licable
- Air tra	nsport
Not appl	licable
14.7.	Transport in bulk according to Annex II of Marpol and the IBC Code
Not app	licable
SECTI	ON 15: Regulatory information
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1.	EU-Regulations
Contains	s no REACH substances with Annex XVII restrictions
Contains	s no substance on the REACH candidate list
Contains	s no REACH Annex XIV substances
15.1.2.	National regulations
No addit	tional information available
15.2.	Chemical safety assessment
No chen	nical safety assessment has been carried out
SECTI	ON 16: Other information
Full text	t of H- and EUH-statements:

EUH032	Contact with acids liberates very toxic gas.

SDS EU (REACH Annex II)

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.