

SECTION 1: Kit identification

Tartaric Acid Assay Kit

Kit SIS (Safety Information Sheet)

Issue date (US):1/10/2018 Revision date (US):4/12/2022 Supersedes (US):1/10/2018 Version (US):1.1

1.1. Kit identifier					
Product name		: Tartaric Acid Assay Kit	t		
Product code		: K-TART			
2. Details of the supplier of the Kit safety information sheet					
1.2. Details of the st	ipplier of the Kit sale	ty mormation sheet			
Megazyme					
Bray Business Park A98 YV29 Bray - Ireland					
T +353 12861220 - F +353					
cs@megazyme.com - www	/.megazyme.com				
SECTION 2: General	information				
This product is a Kit which	consists of several ind	ependently packaged com	nonents		
This Kit should be handled	in accordance with go	od laboratory practices an	id appropriate person	al protective equipment should be used	
SECTION 3: Kit cont	ents				
Nama	General descripti	on Ouentitu	Unit	CHC US elegation	
Name Tartaric Acid Assay Kit	Buffer	on Quantity	pcs (pieces)	GHS US classification Aquatic Acute 3, H402	
(Bottle 1)					
Tartaric Acid Assay Kit (Bottle 4)	Reagent	1	pcs (pieces)	Carc. 1A, H350	
Name	General descripti	on Quantity	Unit	GHS US classification	
Tartaric Acid Assay Kit	Reagent	2	pcs (pieces)	Not classified	
(Bottle 2)				Not classified	
Tartaric Acid Assav Kit	Reagent	2	ncs (nieces)		
Tartaric Acid Assay Kit (Bottle 3)	Reagent	2	pcs (pieces)		
(Bottle 3)	_	2	pcs (pieces)		
	_	2	pcs (pieces)		
(Bottle 3) SECTION 4: General No data available	advice	2	pcs (pieces)		
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha	advice				
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha Environmental precautions	advice	: Avoid release to the er	nvironment		
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha	advice		nvironment		
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha Environmental precautions	advice ndling advice	 Avoid release to the er Store in a well-ventilate Keep cool. Ensure good ventilation 	nvironment ed place. n of the work station		
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha Environmental precautions Storage conditions	advice ndling advice	 Avoid release to the er Store in a well-ventilate Keep cool. 	nvironment ed place. n of the work station		
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha Environmental precautions Storage conditions	advice ndling advice	 Avoid release to the er Store in a well-ventilate Keep cool. Ensure good ventilation 	nvironment ed place. n of the work station		
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha Environmental precautions Storage conditions Precautions for safe handlin SECTION 6: First aid	advice ndling advice ^{ng} I measures	 Avoid release to the er Store in a well-ventilate Keep cool. Ensure good ventilation Wear personal protection 	nvironment ed place. n of the work station ive equipment		
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha Environmental precautions Storage conditions Precautions for safe handlin SECTION 6: First aid First-aid measures after ey	advice ndling advice ng I measures e contact	 Avoid release to the er Store in a well-ventilate Keep cool. Ensure good ventilation Wear personal protection Rinse eyes with water 	nvironment ed place. n of the work station ive equipment as a precaution		
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha Environmental precautions Storage conditions Precautions for safe handli	advice ndling advice ng I measures e contact gestion	 Avoid release to the er Store in a well-ventilate Keep cool. Ensure good ventilation Wear personal protection Rinse eyes with water Call a poison center/do 	nvironment ed place. n of the work station ive equipment as a precaution octor/physician if you	feel unwell	
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha Environmental precautions Storage conditions Precautions for safe handlin SECTION 6: First aid First-aid measures after ey First-aid measures after ing	advice ndling advice ng I measures e contact gestion nalation	 Avoid release to the er Store in a well-ventilate Keep cool. Ensure good ventilation Wear personal protection Rinse eyes with water 	nvironment ed place. n of the work station ive equipment as a precaution pctor/physician if you sh air and keep comfo	feel unwell	
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha Environmental precautions Storage conditions Precautions for safe handlin SECTION 6: First aid First-aid measures after ey First-aid measures after ing First-aid measures after ing	advice ndling advice ng d measures e contact gestion halation in contact	 Avoid release to the er Store in a well-ventilate Keep cool. Ensure good ventilation Wear personal protection Rinse eyes with water Call a poison center/do Remove person to fress 	nvironment ed place. n of the work station ive equipment as a precaution pctor/physician if you sh air and keep comfo	feel unwell	
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha Environmental precautions Storage conditions Precautions for safe handli SECTION 6: First aid First-aid measures after ey First-aid measures after ing First-aid measures after inf First-aid measures after inf	advice ndling advice ng i measures e contact gestion nalation in contact atment	 Avoid release to the er Store in a well-ventilate Keep cool. Ensure good ventilation Wear personal protection Rinse eyes with water Call a poison center/do Remove person to fress Wash skin with plenty of 	nvironment ed place. n of the work station ive equipment as a precaution pctor/physician if you sh air and keep comfo	feel unwell	
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha Environmental precautions Storage conditions Precautions for safe handlin SECTION 6: First aid First-aid measures after ey First-aid measures after inf First-aid measures after inf First-aid measures after inf First-aid measures after ski Other medical advice or tre SECTION 7: Fire fight	advice ndling advice ng d measures e contact gestion halation in contact atment hting measures	 Avoid release to the er Store in a well-ventilate Keep cool. Ensure good ventilation Wear personal protection Rinse eyes with water Call a poison center/do Remove person to fress Wash skin with plenty of Treat symptomatically 	nvironment ed place. n of the work station ive equipment as a precaution octor/physician if you sh air and keep comfo of water	feel unwell rtable for breathing.	
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha Environmental precautions Storage conditions Precautions for safe handlin SECTION 6: First aid First-aid measures after ey First-aid measures after inf First-aid measures after inf First-aid measures after inf Section 7: Fire fight	advice ndling advice ng d measures e contact gestion halation in contact atment hting measures	 Avoid release to the er Store in a well-ventilate Keep cool. Ensure good ventilation Wear personal protection Rinse eyes with water Call a poison center/do Remove person to fress Wash skin with plenty of Treat symptomatically 	nvironment ed place. n of the work station ive equipment as a precaution potor/physician if you sh air and keep comfo of water action without suitab	feel unwell	
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha Environmental precautions Storage conditions Precautions for safe handlin SECTION 6: First aid First-aid measures after ey First-aid measures after ing First-aid measures after ing Section 2000 (Section 2000) (Sec	advice ndling advice ng d measures e contact gestion halation in contact atment hting measures	 Avoid release to the er Store in a well-ventilate Keep cool. Ensure good ventilation Wear personal protection Rinse eyes with water Call a poison center/do Remove person to fress Wash skin with plenty of Treat symptomatically Do not attempt to take Self-contained breathin Complete protective choice 	nvironment ed place. n of the work station ive equipment as a precaution octor/physician if you sh air and keep comfo of water action without suitab ng apparatus othing	feel unwell rtable for breathing.	
(Bottle 3) SECTION 4: General No data available SECTION 5: Safe ha Environmental precautions Storage conditions Precautions for safe handlin SECTION 6: First aid First-aid measures after ey First-aid measures after inf First-aid measures after inf First-aid measures after inf Section 7: Fire fight	advice ndling advice ng d measures e contact gestion halation in contact atment hting measures g	 Avoid release to the er Store in a well-ventilate Keep cool. Ensure good ventilation Wear personal protection Rinse eyes with water Call a poison center/do Remove person to fress Wash skin with plenty of Treat symptomatically Do not attempt to take Self-contained breathing 	nvironment ed place. n of the work station ive equipment as a precaution octor/physician if you sh air and keep comfo of water action without suitab ng apparatus othing	feel unwell rtable for breathing.	

Tartaric Acid Assay Kit

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fire

SECTION 8: Other information

No data available



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SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Tartaric Acid Assay Kit (Bottle 4)
Product code	
	: K-TART (Bottle 4)
1.2. Recommended use and restrictions	
Use of the substance/mixture	: Use as laboratory reagent
1.3. Supplier	
Megazyme Bray Business Park Bray, A98 YV29 - Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme.com	
1.4. Emergency telephone number	
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or m	ixture
GHS US classification	
Carcinogenicity Category 1A	May cause cancer
2.2. GHS Label elements, including prec	
z.z. Ono Laber elements, including prec	autionary statements
GHS US labeling	autionary statements
	· · · · · · · · · · · · · · · · · · ·
GHS US labeling	: Danger
GHS US labeling Hazard pictograms (GHS US)	
GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US)	: Danger
GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US)	 Danger Danger May cause cancer Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear eye protection, protective clothing, protective gloves If exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container to
GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	 Danger Danger May cause cancer Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear eye protection, protective clothing, protective gloves If exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container to
GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US) 2.3. Other hazards which do not result in	 Danger Danger May cause cancer Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear eye protection, protective clothing, protective gloves If exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container to
GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US) 2.3. Other hazards which do not result in No additional information available	 Danger Danger May cause cancer Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear eye protection, protective clothing, protective gloves If exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container to
GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US) Precautionary statements (GHS US) No additional information available 2.4. Unknown acute toxicity (GHS US) Not applicable	 : Variable in the image of the imag
GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US) Precautionary statements (GHS US) No additional information available 2.4. Unknown acute toxicity (GHS US) Not applicable SECTION 3: Composition/Information	 : Variable in the image of the imag
GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US) Precautionary statements (GHS US) No additional information available 2.4. Unknown acute toxicity (GHS US) Not applicable SECTION 3: Composition/Informatio 3.1. Substances	 : Variable in the image of the imag
GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US) Precautionary statements (GHS US) No additional information available 2.4. Unknown acute toxicity (GHS US) Not applicable SECTION 3: Composition/Information	 : Variable in the image of the imag

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Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
sulfuric acid	battery acid / BOV / brown acid / brown oil of vitriol / dihydrogen sulfate / dipping acid / electrolyte acid / hydrogensulfate / matting acid / mattling acid / nordhausen acid / oil of vitriol / sulfate of hydrogen / sulfuric acid, anhydrous / sulfuric acid / sulphuric acid / Sulphuric acid with more than 51% acid / vitriol, brown oil	(CAS-No.) 7664-93-9	0.1 – 1	Skin Corr. 1A, H314

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	: 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 effe	cts (acute and delayed)
4.3. Immediate medical attention and sp	ecial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguis	ning media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the cl	nemical
Hazardous decomposition products in case of	: Toxic fumes may be released.
fire	
5.3. Special protective equipment and p	
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
6.1.Personal precautions, protective ec6.1.1.For non-emergency personnel	SURES uipment and emergency procedures
6.1. Personal precautions, protective ec	sures
6.1.Personal precautions, protective ec6.1.1.For non-emergency personnel	SURES uipment and emergency procedures
6.1.Personal precautions, protective ed6.1.1.For non-emergency personnelEmergency procedures	SURES Juipment and emergency procedures : Ventilate spillage area. : Do not attempt to take action without suitable protective equipment. For further information
 6.1. Personal precautions, protective ec. 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 	SURES uipment and emergency procedures : Ventilate spillage area.
 6.1. Personal precautions, protective ec. 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions 	SURES Juipment and emergency procedures : Ventilate spillage area. : Do not attempt to take action without suitable protective equipment. For further information
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 6.1. Personal precautions, protective ec. 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions 	SURES Juipment and emergency procedures : Ventilate spillage area. : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
 6.1. Personal precautions, protective ec. 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 	SURES Juipment and emergency procedures : Ventilate spillage area. : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
 6.1. Personal precautions, protective edited. 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for containment 	SUres uipment and emergency procedures : Ventilate spillage area. : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". ent and cleaning up
 6.1. Personal precautions, protective edited. 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for containment Methods for cleaning up 	SUres uipment and emergency procedures : Ventilate spillage area. : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". ent and cleaning up : Take up liquid spill into absorbent material.
 6.1. Personal precautions, protective edited. 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for containment Methods for cleaning up Other information 	SUres uipment and emergency procedures : Ventilate spillage area. : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". ent and cleaning up : Take up liquid spill into absorbent material.
 6.1. Personal precautions, protective edited. 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for containment Methods for cleaning up Other information 6.4. Reference to other sections 	SUres uipment and emergency procedures : Ventilate spillage area. : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". ent and cleaning up : Take up liquid spill into absorbent material.
 6.1. Personal precautions, protective economic sectors and the sector sector	SUres uipment and emergency procedures : Ventilate spillage area. : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". ent and cleaning up : Take up liquid spill into absorbent material.
 6.1. Personal precautions, protective economic sectors. 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for containment Methods for cleaning up Other information 6.4. Reference to other sections For further information refer to section 13. SECTION 7: Handling and storage 	SUres uipment and emergency procedures : Ventilate spillage area. : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". ent and cleaning up : Take up liquid spill into absorbent material.

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Hygiene	measures		: Do no produ	t eat, drink or smoke when usiı ct.	ng this pro	duct. Always wash h	nands after handling the
7.2.	Conditions for sa	fe storage, includir	ng any ind	compatibilities			
Storage of	conditions		: Store	in a well-ventilated place. Keep	o cool.		
SECTIO	ON 8: Exposure	e controls/pers	onal pro	otection			
8.1.	Control paramete	rs					
	c Acid Assay Kit (E itional information a						
	c acid (7664-93-9)	valiable					
	. ,	nal Exposure Limit	S				
	TWA (mg/m ³)		().2 mg/m³ (Sulfuric acid; USA; /alue; Thoracic fraction)	Time-weig	hted average expos	ure limit 8 h; TLV - Adopted
8.2.	Appropriate engi	neering controls					
	ate engineering cont		: Ensur	e good ventilation of the work	station.		
	nental exposure con			release to the environment.			
			onal prof				
8.3.		tion measures/Pers	onal pro				
Hand p	protection:						
Protect	ive gloves			1			1
Туре		Material		Permeation	Thickne	ss (mm)	Penetration
Disposa	able gloves	Nitrile rubber (NBF	R)	3 (> 60 minutes)			2 (< 1.5)
Eye pro	otection:						
Safety g	glasses						
Туре			Use			Characteristics	
Safety g	glasses		Droplet	let		With side shields, clear	
Skin ar	nd body protection	:					
Wear s	uitable protective clo	othing					
Туре							
Lab coa	at						
Respira	atory protection:						
In case	of insufficient ventil	ation, wear suitable	respirator	y equipment			
Device	In case of insufficient ventilation, wear suitable respiratory equipment Device Filter type Condition						
Dust m	ask		Type P1			Protection for Liqu	id particles
Porsona	I protective equipn	nont symbol(s):					

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical	Information on basic physical and chemical properties		
Physical state	: Liquid		
Color	: No data available on colour		
Odor	: None		

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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

SECT	SECTION 10: Stability and reactivity				
10.1.	Reactivity				
The pro	The product is non-reactive under normal conditions of use, storage and transport.				
10.2.	Chemical stability				
Otabla					
Stable L	Stable under normal conditions.				
10.3.	Possibility of hazardous reactions				
No dang	gerous reactions known under normal conditions of use.				

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
sulfuric acid (7664-93-9)		
LD50 oral rat	2140 mg/kg body weight	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: May cause cancer.	

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sulfuric acid (7664-93-9)	
IARC group	1 - Carcinogenic to humans
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.
sulfuric acid (7664-93-9)	

LC50 fish 1	42 mg/l (LC50; 96 h)	
EC50 Daphnia 1	29 mg/l (EC50; 24 h)	
EC50 other aquatic organisms 1	> 100 mg/l waterflea	
EC50 other aquatic organisms 2	> 100 mg/l	

12.2. Persistence and degradability

sulfuric acid (7664-93-9)		
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

sulfuric acid (7664-93-9)	
Partition coefficient n-octanol/water (Log Pow)	-2.2
Bioaccumulative potential	Bioaccumulation unlikely.

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

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

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Air transport

Not applicable

SECTION 15: Regulatory information
15.1. US Federal regulations
No additional information available
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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Revision date

: 03/21/2022

SDS US (GHS HazCom 2012)

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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	Issue date: 01/10/2018	Revision date: 02/28/2022	Supersedes: 01/10/2018	Version: 1.1
SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name	: Tartaric Acid	Assay Kit (Bottle 3)		
Product code	: K-TART (Bott	le 3)		
1.2. Recommended use an	d restrictions on use			
Use of the substance/mixture	: Use as labora	atory reagent		
1.3. Supplier				
Megazyme Bray Business Park Bray, A98 YV29 - Ireland T +353 12861220 - F +353 128612 <u>cs@megazyme.com</u> - <u>www.megaz</u>				
1.4. Emergency telephone	number			
Emergency number	: +353 128612	20 [9 am to 5 pm GMT - Mond	ay to Friday]	
SECTION 2: Hazard(s) ide	ntification			
2.1. Classification of the su				
GHS US classification				
Not classified				
2.2. GHS Label elements, in	ncluding precautionary staten	nents		
GHS US labeling				
No labeling applicable				
2.3. Other hazards which d	o not result in classification			
No additional information available				
2.4. Unknown acute toxicity				
Not applicable				
SECTION 3: Composition	Information on ingredie	ents		
3.1. Substances	5			
Not applicable				
3.2. Mixtures				
This mixture does not contain any		cording to the criteria of sectio	n 3.2 of HazCom 2012	
SECTION 4: First-aid mea				
4.1. Description of first aid				
First-aid measures after inhalation		on to fresh air and keep comfo	ortable for breathing.	
First-aid measures after skin conta		th plenty of water.		
First-aid measures after eye conta		ith water as a precaution.	C 1 1	
First-aid measures after ingestion	-	center/doctor/physician if you	teel unwell.	
4.2. Most important sympto	oms and effects (acute and de	layed)		
4.3. Immediate medical atte	ention and special treatment, i	if necessary		
Treat symptomatically.				
SECTION 5: Fire-fighting	measures			

Suitable (and unsuitable) extinguishing media 5.1.

Suitable extinguishing media

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

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Hazardous decomposition fire	•	: Toxic	umes may be released.			
5.3. Special protect	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: Accide	ntal release meas	ures				
6.1. Personal preca	utions, protective equ	uipment a	nd emergency procedures			
6.1.1. For non-emerg	ency personnel					
Emergency procedures		: Ventila	te spillage area.			
6.1.2. For emergency	responders					
Protective equipment			attempt to take action without section 8: "Exposure controls			t. For further information
6.2. Environmental	precautions					
Avoid release to the enviro	onment.					
6.3. Methods and m	aterial for containme	nt and cle	aning up			
Methods for cleaning up		: Take u	p liquid spill into absorbent ma	aterial.		
Other information		: Dispos	e of materials or solid residue	s at an au	thorized site.	
6.4. Reference to o	her sections					
For further information ref	er to section 13.					
SECTION 7: Handlin	and storage					
7.1. Precautions fo						
Precautions for safe hand	•	· Ensure	e good ventilation of the work s	station W	ear personal protecti	ive equipment
Hygiene measures			eat, drink or smoke when usir			
7.2. Conditions for	safe storage, includir	ig any inc	ompatibilities			
Storage conditions		: Store i	n a well-ventilated place. Keep	o cool.		
SECTION 8: Exposit	ire controls/perso	onal pro	tection			
8.1. Control parame	-					
Tartaric Acid Assay Kit						
No additional information available						
8.2. Appropriate en	gineering controls					
Appropriate engineering c		: Ensure	e good ventilation of the work s	station.		
Environmental exposure of			release to the environment.			
8.3. Individual prote	ection measures/Pers	onal prot	ective equipment			
Hand protection:						
Protective gloves						
Туре	Material		Permeation	Thickne	ess (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR	2)	3 (> 60 minutes)			2 (< 1.5)
Eye protection:						
Safety glasses						
Туре		Use			Characteristics	
Safety glasses		Droplet			With side shields,	clear
Skin and body protecti	on:					

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Wear suitable protective clothing	
Туре	
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition
Dust mask	Туре Р1	Protection for Liquid particles

Personal protective equipment symbol(s):



9.1. Information on basic physical and c	hemical properties
Physical state	: Liquid
Color	: No data available on colour
Odor	: None
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

No additional information available

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
The proc	duct 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

No dangerous reactions known under normal conditions of use.

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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 informat	tion
11.1. Information on toxicological effects	i
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

SECT	ION 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 addi	tional information available	
12.3.	Bioaccumulative potential	
No addi	tional information available	
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Other adverse effects	
No addi	tional information available	

SECTION 13: Disposal consideration	ns
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	

Not applicable

Transportation of Dangerous Goods

Not applicable

Safety Data Sheet

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

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information
15.1. US Federal regulations
No additional information available
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

: 02/28/2022

SDS US (GHS HazCom 2012)

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: 01/10/2018 Revision date: 03/21/2022 Supersedes: 01/10/2018

Megazyme	according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 01/10/2018 Revision date: 03/21/2022 Supersedes: 01/10/2018 Version: 1.0	
SECTION 1: Identification		
1.1. Identification		
Product form	: Mixture	
Product name	: Tartaric Acid Assay Kit (Bottle 2)	
Product code	: K-TART (Bottle 2)	
1.2. Recommended use and re		
Use of the substance/mixture	: Use as laboratory reagent	
1.3. Supplier		
Megazyme Bray Business Park Bray, A98 YV29 - Ireland T +353 12861220 - F +353 12861264 <u>cs@megazyme.com</u> - <u>www.megazym</u>		
1.4. Emergency telephone nur		
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]	
SECTION 2: Hazard(s) identi	fication	
2.1. Classification of the subs	tance or mixture	
GHS US classification		
Not classified		
2.2. GHS Label elements, inclu	uding precautionary statements	
GHS US labeling		
No labeling applicable		
2.3. Other hazards which do n	ot result in classification	
No additional information available		
2.4. Unknown acute toxicity (C	3HS US)	
Not applicable		
SECTION 3: Composition/In	formation on ingredients	
3.1. Substances		
Not applicable		
3.2. Mixtures		
This mixture does not contain any sub	ostances to be mentioned according to the criteria of section 3.2 of HazCom 2012	
SECTION 4: First-aid measu		
4.1. Description of first aid me		
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 First-aid measures after ingestion	 Rinse eyes with water as a precaution. Call a poison center/doctor/physician if you feel unwell. 	
4.2. Most important symptoms	s and effects (acute and delayed)	
4.3. Immediate medical attenti	ion and special treatment, if necessary	
Treat symptomatically.		
SECTION 5: Fire-fighting me	asures	

Suitable (and unsuitable) extinguishing media 5.1.

Suitable extinguishing media

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

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5.2. Specific hazards arising from the chemical Hazardous decomposition products in case of : Toxic fumes may be released. fire						
5.3. Special protecti	ve equipment and prec	cautions	s for fire-fighters			
Protection during firefightin	g :		attempt to take action without atus. Complete protective cloth		protective equipment	: Self-contained breathing
SECTION 6: Acciden	ital release measu	res				
6.1. Personal precau	itions, protective equip	oment a	nd emergency procedures			
6.1.1. For non-emerge	ncy personnel					
Emergency procedures		Ventila	te spillage area.			
6.1.2. For emergency	responders					
Protective equipment	:		attempt to take action without section 8: "Exposure controls			. For further information
6.2. Environmental	precautions					
Avoid release to the enviro	nment.					
6.3. Methods and ma	aterial for containment	and cle	aning up			
Methods for cleaning up			ip liquid spill into absorbent ma	aterial.		
Other information			e of materials or solid residues		thorized site.	
6.4. Reference to ot						
For further information refe						
SECTION 7: Handlin						
7.1. Precautions for	•	Frour	and ventilation of the work of	tation M	oor porconal protocti	ve equipment
Precautions for safe handlin			e good ventilation of the work s eat, drink or smoke when usir			
Hygiene measures		produc		ig this pro	Suuci. Aiways washi	ianus alter rianuling the
7.2. Conditions for s	afe storage, including	any inc	ompatibilities			
Storage conditions			n a well-ventilated place. Keep	cool.		
SECTION 8: Exposu	re controls/persor	nal pro	tection			
8.1. Control parame	ters					
Tartaric Acid Assay Kit	(Bottle 2)					
No additional information	available					
8.2. Appropriate eng	ineering controls					
Appropriate engineering co			e good ventilation of the work s	station.		
Environmental exposure co	ntrols :	Avoid I	release to the environment.			
8.3. Individual protection measures/Personal protective equipment						
Hand protection:						
Protective gloves						
Type Material			Permeation	Thickne	ess (mm)	Penetration
Disposable gloves	Disposable gloves Nitrile rubber (NBR) 3 (> 60 minutes) 2 (< 1.5)			2 (< 1.5)		
Eye protection:						
Safety glasses						
Туре	L	Use		Characteristics		
Safety glasses	C	Droplet	roplet With side shields, clear		clear	
Skin and body protection	n:					

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Wear suitable protective clothing
Туре
Lab coat

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition
Dust mask	Туре Р1	Protection for Liquid particles

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical	properties	
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Color	: No data available on colour	
Odor	: None	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Not applicable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: Soluble in water.	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

No additional information available

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
The proc	luct 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

No dangerous reactions known under normal conditions of use.

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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	5			
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 addi	tional information available			
12.3.	Bioaccumulative potential			
No addi	tional information available			
12.4.	Mobility in soil			
No addi	tional information available			
12.5.	Other adverse effects			
No addi	tional information available			

SECTION 13: Disposal consideration	ns				
13.1. Disposal methods					
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.				
SECTION 14: Transport information					
Department of Transportation (DOT)					
In accordance with DOT					

Not applicable

Transportation of Dangerous Goods

Not applicable

Safety Data Sheet

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

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information
15.1. US Federal regulations
No additional information available
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

: 03/21/2022

SDS US (GHS HazCom 2012)

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: 01/10/2018 Revision date: 03/21/2022 Supersedes: 01/10/2018

SECTION 1: Identification Identification 1.1. Product form : Mixture Product name : Tartaric Acid Assay Kit (Bottle 1) Product code : K-TART (Bottle 1) Recommended use and restrictions on use 1.2. Use of the substance/mixture : Use as laboratory reagent 1.3. **Supplier** Megazyme Bray Business Park Bray, A98 YV29 - Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme.com 1.4. **Emergency telephone number** Emergency number : +353 12861220 [9 am to 5 pm GMT - Monday to Friday] SECTION 2: Hazard(s) identification Classification of the substance or mixture 2.1. **GHS US classification** Hazardous to the aquatic environment - Acute Hazard Harmful to aquatic life Category 3 GHS Label elements, including precautionary statements 2.2. **GHS US labeling** Hazard statements (GHS US) : Harmful to aquatic life Precautionary statements (GHS US) Avoid release to the environment. 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) Not applicable **SECTION 3: Composition/Information on ingredients** 3.1. **Substances** Not applicable 3.2. **Mixtures** This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012 SECTION 4: First-aid measures 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effect	cts (acute and delayed)

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fight	ing measures			
5.1. Suitable (and unsuitable) extinguishing media				
Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.				
5.2. Specific hazards a	arising from the chemical			
Hazardous decomposition pr	oducts in case of : Toxic f	fumes may be released.		
5.3. Special protective	equipment and precautions	s for fire-fighters		
Protection during firefighting		attempt to take action without atus. Complete protective cloth		. Self-contained breathing
SECTION 6: Accident	al release measures			
6.1. Personal precauti	ons, protective equipment a	nd emergency procedures		
6.1.1. For non-emergen	cy personnel			
Emergency procedures		ate spillage area.		
6.1.2. For emergency re	sponders			
Protective equipment		attempt to take action without section 8: "Exposure controls		. For further information
6.2. Environmental pro	ecautions			
Avoid release to the environm	nent.			
6.3. Methods and mate	erial for containment and cle	aning up		
For containment	: Collec	t spillage.		
Methods for cleaning up	: Take u	ip liquid spill into absorbent ma	aterial.	
Other information	: Dispos	se of materials or solid residues	s at an authorized site.	
6.4. Reference to othe	r sections			
For further information refer t	o section 13.			
SECTION 7: Handling	and storage			
7.1. Precautions for sa	afe handling			
Precautions for safe handling	: Ensure	e good ventilation of the work s	tation. Wear personal protectiv	ve equipment.
Hygiene measures	: Do not produc	t eat, drink or smoke when usir ct.	ng this product. Always wash h	ands after handling the
7.2. Conditions for sa	fe storage, including any inc	ompatibilities		
Storage conditions	: Store i	n a well-ventilated place. Keep	o cool.	
SECTION 8: Exposure	e controls/personal pro	otection		
8.1. Control paramete	rs			
Tartaric Acid Assay Kit (B	Sottle 1)			
No additional information av	vailable			
8.2. Appropriate engin	neering controls			
Appropriate engineering cont	Appropriate engineering controls : Ensure good ventilation of the work station.			
Environmental exposure cont	trols : Avoid	release to the environment.		
8.3. Individual protect	ion measures/Personal prot	ective 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 Data Sheet

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

Safety glasses		
Туре	Use	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

Device	Filter type	Condition
Dust mask	Туре Р1	Protection for Liquid particles

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and ch	nemical properties	
Physical state	: Liquid	
Color	: No data available on colour	
Odor	: None	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Not applicable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: Soluble in water.	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
9.2. Other information		

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

Safety Data Sheet

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 react	ions
No dangerous reactions known under norr	nal conditions of use.
10.4. Conditions to avoid	
None under recommended storage and ha	andling conditions (see section 7).
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition pro	oducts
Under normal conditions of storage and us	se, hazardous decomposition products should not be produced.
SECTION 11: Toxicological info	rmation
11.1. Information on toxicological e	
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

		tot olubbilieu
Aspiration hazard	: N	Not classified
Viscosity, kinematic	: N	No data available

SECT	ON 12: Ecological information	
12.1.	Toxicity	
Ecology	- general	: Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
12.2.	Persistence and degradability	
No addi	tional information available	
12.3.	Bioaccumulative potential	
No addi	tional information available	
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Other adverse effects	
No addi	tional information available	

SECTIO	ON 13: Disposal consideration	S
13.1.	Disposal methods	
Waste tre	eatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Safety Data Sheet

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

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information
15.1. US Federal regulations
No additional information available
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

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SDS US (GHS HazCom 2012)

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