

Total Starch Control Flours

Kit Safety Information Sheet

Date of issue: 28/11/2013

Revision date: 15/01/2018

Supersedes: 06/09/2016

Version: 1.3

SECTION 1: Kit identification	
1.1. Kit identifier	
Product name	: Total Starch Control Flours
Product code	: K-TSCK
1.2. Details of the supplier of the KIT sa	afety information sheet
Megazyme	
Bray Business Park	
A98 YV29 Bray - Ireland	
T +353 12861220 - F +353 12861264	
<u>cs@megazyme.com</u> - <u>www.megazyme.com</u>	
SECTION 2: General information	

This Kit should be handled in accordance with good laboratory practices and appropriate personal protective equipment should be used

SECTION 3: Kit contents

No substance or mixture included in the following Kit components is hazardous according to Regulation (EC) No. 1272/2008 [CLP] and therefore the requirements of Regulation (EU) 2015/830 do not apply

Name	General description	Quantity	Unit
Total Starch Control Flours (Bottle 1)	Reagent	1	pcs (pieces)
Total Starch Control Flours (Bottle 2)	Reagent	1	pcs (pieces)
Total Starch Control Flours (Bottle 3)	Reagent	1	pcs (pieces)
Total Starch Control Flours (Bottle 4)	Reagent	1	pcs (pieces)
Total Starch Control Flours (Bottle 5)	Reagent	1	pcs (pieces)

SECTION 4: General advice

No data available

SECTION 5: Safe handling advice			
Environmental precautions Storage conditions	 Avoid release to the environment Store in a well-ventilated place. Keep cool. 		
Precautions for safe handling	: Ensure good ventilation of the work station Wear personal protective equipment		
SECTION 6: First aid measures			
First-aid measures after eye contact	: Rinse eyes with water as a precaution		
First-aid measures after ingestion	: Call a poison center 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 measures			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment Self-contained breathing apparatus Complete protective clothing		
Hazardous decomposition products in case of fire	: Toxic fumes may be released		

Total Starch Control Flours

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SECTION 8: Other information

No data available



Safety Data Sheet

according to Regulation (EU) 2015/830

Megazyme	Date of issue: 28/11/2013	Revision date: 15/01/2018	Supersedes: 06/09/2016	Version: 1.3
SECTION 1: Identification of	of the substance/mixtu	re and of the company	/undertaking	
1.1. Product identifier				
Product form	: Mixture			
Product name	: Total Starch (Control Flours (Bottle 5)		
Product code	: K-TSCK (Bott	le 5)		
1.2. Relevant identified uses	of the substance or mixture	and uses advised against		
1.2.1. Relevant identified uses				
Industrial/Professional use spec	: For profession	nal use only		
Use of the substance/mixture	: Use as labora	tory 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.megazyme.com				
1.4. Emergency telephone nu	umber			
Emergency number	: +353 128612	20 [9 am to 5 pm GMT - Monda	ay to Friday]	
SECTION 2: Hazards identi	fication			
2.1. Classification of the sub	stance or mixture			
Not classified Adverse physicochemical, human To our knowledge, this product does practice.			ordance with good occupation	al hygiene and safety
2.2. Label elements				
Labelling according to Regulation	I (EC) No. 1272/2008 [CLP]			
No labelling applicable				
Labelling according to: exemption	n for inner packaging where	the contents do not exceed	10ml	
No labelling required				
2.3. Other hazards				
No additional information available				
SECTION 3: Composition/ir	nformation on ingredie	nts		
3.1. Substances				
Not applicable				
3.2. Mixtures				
This mixture does not contain any su	ubstances to be mentioned ac	cording to the criteria of section	n 3.2 of REACH annex II	
SECTION 4: First aid measure	ures			

SECTION 4. First alu 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 eff	ects, both acute and delayed
No additional information available	

Safety Data Sheet

according to Regulation (EU) 2015/830

4.3. Indication of any immediate media	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	
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	asures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information
	refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for 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.
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	
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	
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 374-2

Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Dust	With side shields, clear	EN 166

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

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	9.1. Information on basic physical and chemical properties		
Physical state	: Solid		
Colour	: No data available on colour.		
Odour	: None.		
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		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive limits	: Not applicable		
9.2. Other information			
No additional information available			

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
The pro	duct 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 dan	gerous reactions known under normal conditions of use.
10.4.	Conditions to avoid
NI	

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

Safety Data Sheet

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 information	ation
11.1. Information on toxicological effec	ts
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.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: 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	
40.0 Other educates offerste	
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 / A	
ADR	ΙΑΤΑ
14.1. UN number Not applicable	Net applicable
	Not applicable
14.2. UN proper shipping name Not applicable	Not applicable
14.3. Transport hazard class(es)	
Not applicable	Not applicable
	••

Not applicable

Not applicable

Packing group

Environmental hazards

14.4.

14.5. Envi Not applicable

Not applicable

Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	ΙΑΤΑ			
	No supplementary information available			
14.6.	Special precautions for user			
- Overla	and transport			
Not app	licable			
- Air transport				
Not app	licable			
14.7.	Transport in bulk according to Annex II of Marpol and the IBC Code			
Not app	licable			
SECT	ION 15: Regulatory information			
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture			
15.1.1.	EU-Regulations			
Contain	Contains no REACH substances with Annex XVII restrictions			
Contain	s no substance on the REACH candidate list			
Contain	s 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

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 Date of issue: 28/11/2013 Revision date:

Revision date: 15/01/2018

Supersedes: 06/09/2016

Version: 1.3

Negazyme	Date of issue: 28/11/2013	Revision date: 15/01/2018	Supersedes: 06/09/2016	Version: 1.3
SECTION 1: Identification of	the substance/mixtu	re and of the company	/undertaking	
1.1. Product identifier		· · ·		
Product form	: Mixture			
Product name	: Total Starch (Control Flours (Bottle 4)		
Product code	: K-TSCK (Bott	ile 4)		
1.2. Relevant identified uses of	f the substance or mixture	and uses advised against		
1.2.1. Relevant identified uses				
ndustrial/Professional use spec	: For profession	nal use only		
Jse of the substance/mixture	: Use as labora	atory 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 <u>cs@megazyme.com</u> - <u>www.megazym</u>				
1.4. Emergency telephone nur				
Emergency number		20 [9 am to 5 pm GMT - Monda	av to Fridavl	
	. 000 120012		ay to Thiday]	
SECTION 2: Hazards identifi	cation			
2.1. Classification of the subs	tance or mixture			
Adverse physicochemical, human I To our knowledge, this product does r practice.			ordance with good occupation	al hygiene and safet
2.2. Label elements				
Labelling according to Regulation (EC) No. 1272/2008 [CI P]			
No labelling applicable				
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/inf	formation on ingredie	ents		
3.1. Substances				
Not applicable				
3.2. Mixtures				
This mixture does not contain any sub	estances to be mentioned ac	cording to the criteria of section	n 3.2 of REACH annex II	
SECTION 4: First aid measu	res			

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		

Safety Data Sheet

according to Regulation (EU) 2015/830

4.3. Indication of any imm	ediate medical 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 arisin	ng from the substance or mixture
Hazardous decomposition produc fire	cts in case of : 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 r	elease measures
6.1. Personal precautions	, protective equipment and emergency procedures
6.1.1. For non-emergency p	ersonnel
Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency respo	nders
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 precau	utions
Avoid release to the environment	
6.3. Methods and material	for containment 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 se	ctions
For further information refer to se	ction 13.
SECTION 7: Handling and	d storage
7.1. Precautions for safe h	landling
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 st	torage, including any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	
No additional information available	e
SECTION 8: Exposure co	ontrols/personal protection
8.1. Control parameters	
No additional information availabl	e
8.2. Exposure controls	
Appropriate engineering control	bis:
Ensure good ventilation of the wo	rk station.
Hand protection:	
Protective gloves	

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

Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Dust	With side shields, clear	EN 166

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

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	9.1. Information on basic physical and chemical properties		
Physical state	: Solid		
Colour	: No data available on colour.		
Odour	: None.		
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		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive limits	: Not applicable		
9.2. Other information			
No additional information available			

SECT	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		
Noneu	nder recommended storage and handling conditions (see section 7)		

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

Safety Data Sheet

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 int	ormation
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	on .
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: 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 assessm	ient
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ons
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 /	
ADR	ΙΑΤΑ
14.1. UN number	NiskangBashla
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	
Net englischte	Nist and Reality

Not applicable

Not applicable

Environmental hazards

Not applicable

Not applicable

14.5.

Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	ΙΑΤΑ				
	No supplementary information available				
14.6.	Special precautions for user				
- Overla	- Overland transport				
Not app	licable				
- Air transport					
Not app	licable				
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code					
Not app	licable				
SECT	ION 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					
Contain	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

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

Megazyme	Date of issue: 28/11/2013	Revision date: 15/01/2018	Supersedes: 06/09/2016	Version: 1.3
SECTION 1: Identification of	of the substance/mixtu	re and of the company	/undertaking	
1.1. Product identifier				
Product form	: Mixture			
Product name	: Total Starch C	Control Flours (Bottle 3)		
Product code	: K-TSCK (Bott	e 3)		
1.2. Relevant identified uses	of the substance or mixture	and uses advised against		
1.2.1. Relevant identified uses				
Industrial/Professional use spec	: For professior	al use only		
Use of the substance/mixture	: Use as labora	tory 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 <u>cs@megazyme.com</u> - <u>www.megazy</u>				
1.4. Emergency telephone nu	umber			
Emergency number	: +353 1286122	20 [9 am to 5 pm GMT - Monda	ay to Friday]	
SECTION 2: Hazards identi	fication			
2.1. Classification of the sub	stance or mixture			
Not classified Adverse physicochemical, human To our knowledge, this product does practice.			ordance with good occupation	al hygiene and safet
2.2. Label elements				
Labelling according to Regulation	n (EC) No. 1272/2008 [CLP]			
No labelling applicable				
Labelling according to: exemption	n for inner packaging where	the contents do not exceed	10ml	
No labelling required				
2.3. Other hazards				
No additional information available				
SECTION 3: Composition/ii	nformation on ingredie	nts		
3.1. Substances				
Not applicable				
3.2. Mixtures				
This mixture does not contain any su	ubstances to be mentioned acc	cording to the criteria of section	n 3.2 of REACH annex II	
SECTION 4: First aid measure	ures			

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 effe	cts, both acute and delayed
No additional information available	

Safety Data Sheet

according to Regulation (EU) 2015/830

4.3. Indication of any immediate media	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 s	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	asures
6.1. Personal precautions, protective e	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	nent 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.
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, include	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/per	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:	
Protective gloves	

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

Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Dust	With side shields, clear	EN 166

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

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 on colour.	
Odour	: None.	
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	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: Not applicable	
9.2. Other information		
No additional information available		

SECT	ION 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		
Stable ι	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).

Safety Data Sheet

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 information	ation
11.1. Information on toxicological effec	ts
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	on .
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: 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 assessm	ient
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ons
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 /	
ADR	ΙΑΤΑ
14.1. UN number	NiskangBashla
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	
Net englischte	Nist and Reality

Not applicable

Not applicable

Environmental hazards

Not applicable

Not applicable

14.5.

EN (English)

Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	IATA
	No supplementary information available
14.6.	Special precautions for user
- Overla	and transport
Not app	licable
- Air tra	insport
Not app	blicable
14.7.	Transport in bulk according to Annex II of Marpol and the IBC Code
Not app	licable
SECT	ION 15: Regulatory information
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1.	EU-Regulations
Contair	is no REACH substances with Annex XVII restrictions
Contain	is no substance on the REACH candidate list
Contain	is 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

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 Date of issue: 28/11/2013 Revision Revision date: 15/01/2018

des: 06/09/2016

Version: 1.3

Negazyme	Date of issue: 28/11/2013	Revision date: 15/01/2018	Supersedes: 06/09/2016	Version: 1.3
SECTION 1: Identification of	of the substance/mixtu	re and of the company	/undertaking	
.1. Product identifier				
Product form	: Mixture			
Product name	: Total Starch (Control Flours (Bottle 2)		
Product code	: K-TSCK (Bot			
.2. Relevant identified uses	of the substance or mixture	and uses advised against		
.2.1. Relevant identified uses				
ndustrial/Professional use spec	: For profession	nal use only		
Ise of the substance/mixture	: Use as labora	atory reagent		
I.2.2. Uses advised against				
lo additional information available				
.3. Details of the supplier of	f the safety data sheet			
legazyme				
Bray Business Park				
\98 YV29 Bray - Ireland Γ +353 12861220 - F +353 1286126				
s@megazyme.com - www.megazy				
.4. Emergency telephone n				
mergency number		20 [9 am to 5 pm GMT - Mond	ay to Friday]	
0			, ,,	
ECTION 2: Hazards identi	fication			
.1. Classification of the sub	stance or mixture			
Adverse physicochemical, humar To our knowledge, this product does practice.			ordance with good occupation	al hygiene and safe
.2. Label elements				
_abelling according to Regulatior	(EC) No. 1272/2008 [CLP]			
No labelling applicable	. (==)			
-abelling according to: exemption	a for inner nackaging where	the contents do not exceed	10ml	
Labering according to: exemption	The inner packaging where	the contents do not exceed		
lo labelling required				
2.3. Other hazards				
No additional information available				
SECTION 3: Composition/i	nformation on ingredie	ents		
.1. Substances				
lot applicable				
3.2. Mixtures				
This mixture does not contain any s	ubstances to be mentioned ac	cording to the criteria of sectio	n 3.2 of REACH annex II	
SECTION 4: First aid meas	Uras			

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		

Safety Data Sheet

according to Regulation (EU) 2015/830

4.3. Indication of any immediate media	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 s	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	asures
6.1. Personal precautions, protective e	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	nent 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.
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/per	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:	
Protective gloves	

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

Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Dust	With side shields, clear	EN 166

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

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	9.1. Information on basic physical and chemical properties		
Physical state	: Solid		
Colour	: No data available on colour.		
Odour	: None.		
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		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive limits	: Not applicable		
9.2. Other information			
No additional information available			

SECT	SECTION 10: Stability and reactivity		
10.1.	Reactivity		
The pro	duct 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 dan	gerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
NI			

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

Safety Data Sheet

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 inform	nation
11.1. Information on toxicological effe	cts
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.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: 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	nt
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 42: Dispacel consideration	
SECTION 13: Disposal consideration	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	IATA
14.1. UN number	IATA
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	
NI-4	Net and Beach In

Not applicable

Not applicable

14.5.

Not applicable

Not applicable

Environmental hazards

Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	IATA
	No supplementary information available
14.6.	Special precautions for user
- Overla	and transport
Not app	licable
- Air tra	insport
Not app	blicable
14.7.	Transport in bulk according to Annex II of Marpol and the IBC Code
Not app	licable
SECT	ION 15: Regulatory information
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1.	EU-Regulations
Contair	is no REACH substances with Annex XVII restrictions
Contain	is no substance on the REACH candidate list
Contain	is 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

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

Megazyme	according to Regulation (EU). Date of issue: 28/11/2013	Revision date: 15/01/2018	Supersedes: 06/09/2016	Version: 1.3
SECTION 1: Identification o	f the substance/mixtu	re and of the company	/undertaking	
1.1. Product identifier			Ŭ	
Product form	: Mixture			
Product name	: Total Starch C	Control Flours (Bottle 1)		
Product code	: K-TSCK (Bott	le 1)		
1.2. Relevant identified uses	of the substance or mixture	and uses advised against		
1.2.1. Relevant identified uses				
Industrial/Professional use spec	: For professior	nal use only		
Use of the substance/mixture	: Use as labora	tory reagent		
1.2.2. Uses advised against				
No additional information available				
1.3. Details of the supplier of	the safety data sheet			
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 1286126 cs@megazyme.com - www.megazyr				
1.4. Emergency telephone nu	imber			
Emergency number	: +353 1286122	20 [9 am to 5 pm GMT - Monda	ay to Friday]	
2.1. Classification of the sub- Classification according to Regula Not classified		P]		
Adverse physicochemical, human To our knowledge, this product does practice.			ordance with good occupation	al hygiene and safet
2.2. Label elements				
Labelling according to Regulation No labelling applicable	(EC) No. 1272/2008 [CLP]			
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/ir	formation on ingredie	nts		
3.1. Substances				
Not applicable				
3.2. Mixtures				
This mixture does not contain any su	bstances to be mentioned acc	cording to the criteria of section	n 3.2 of REACH annex II	
SECTION 4. First aid mass				

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 effect	cts, both acute and delayed
No additional information available	

Safety Data Sheet

according to Regulation (EU) 2015/830

4.3. Indication of any immediate med	ical 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	
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.
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.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.9 Conditions for cofe storage inclu	
7.2. Conditions for safe storage, inclu Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s) No additional information available	
	reanal protection
SECTION 8: Exposure controls/pe	
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 374-2

Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Dust	With side shields, clear	EN 166

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

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	9.1. Information on basic physical and chemical properties		
Physical state	: Solid		
Colour	: No data available on colour.		
Odour	: None.		
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		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive limits	: Not applicable		
9.2. Other information			
No additional information available			

SECT	SECTION 10: Stability and reactivity		
10.1.	Reactivity		
The pro	duct 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 dan	gerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
NI			

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

Safety Data Sheet

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 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.		
Acute aquatic toxicity	: Not classified		
Chronic aquatic toxicity	: 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 assessment			
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 / A	DN		
ADR	IATA		
14.1. UN number			
Not applicable	Not applicable		
14.2. UN proper shipping name	Netensieghle		
Not applicable	Not applicable		
14.3. Transport hazard class(es)			

Not applicable

Not applicable

Not applicable

Packing group

Environmental hazards

Not applicable

Not applicable 14.5. Envi

Not applicable

14.4.

Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	ΙΑΤΑ			
No supplementary information available				
14.6.	Special precautions for user			
- Overl	and transport			
Not applicable				
- Air tra	ansport			
Not app	blicable			
14.7.	Transport in bulk according to Annex II of Marpol and the IBC Code			
Not app	blicable			
SECT	ION 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				
Contair	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

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.