

Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-04
1.37	2018-01-09	10000010878	Date of first issue: 2015-02-26

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier				
Trade name	: Capture enhancement reagent			
Substance name	: Capture enhancement reagent 7037			

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	: Assay reagent
stance/Mixture	

1.3 Details of the supplier of the safety data sheet

Company	:	Menarini Silicon Biosystems, Inc 3401 Masons Mill Rd #100 Huntingdon Valley, PA 19006 USA		
Telephone	:	1 (800) 381-4929		
Telefax	:			
E-mail address Responsible/issuing person	:	Us-info@siliconbiosystems.com		
Emergency telephone number				

1.4 Emergency telephone number US:(303) 389-1805 International: +1 (303) 389-1805

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Supplemental Hazard	:	Not a hazardous substance or mixture ac-
Statements		cording to Regulation (EC) No. 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-04
1.37	2018-01-09	10000010878	Date of first issue: 2015-02-26

: Liquid

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
sodium azide	26628-22-8 247-852-1	Acute Tox. 2; H300 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

	If inhaled	:	If breathed in, move person into fresh air. Consult a physician.
	In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash off with plenty of water. If symptoms persist, call a physician.
	In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.
	If swallowed	:	If swallowed, rinse mouth with water (only if the person is con- scious). Call a physician immediately.
4.2	Most important symptoms and	l e	ffects, both acute and delayed
	Symptoms	:	No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-



Capture enhancement reagent					
Version 1.37	Revision Date: 2018-01-09	SDS Number: 100000010878	Date of last issue: 2017-08-04 Date of first issue: 2015-02-26		
	cumstances and the surrounding environment.				
5.2 Spe	cial hazards arising from	the substance or m	ixture		
Specific hazards during fire- fighting		: No information available.			
5.3 Advice for firefighters					
	ecial protective equipment firefighters	: In the event of fi	re, wear self-contained breathing apparatus.		
Further information : No information avail		vailable.			

SECTION 6: Accidental release measures

6.1 Personal precautions, protect	tive equipment and emergency procedures
Personal precautions	: In the event of an accidental release the emergency response team must respond based on a risk assessment and use per- sonal protective equipment as appropriate.
6.2 Environmental precautions	
Environmental precautions	: Should not be released into the environment.
6.3 Methods and material for con	tainment and cleaning up
Methods for cleaning up	 Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers. Small spills: Gently cover the spill with an absorbent towel or pad. Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the sec- tion "Disposal considerations".

6.4 Reference to other sections

For disposal information, see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	 To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.
Advice on protection against fire and explosion	: No data available
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice.



Version 1.37	Revision Date: 2018-01-09	SDS Number: 100000010878	Date of last issue: 2017-08-04 Date of first issue: 2015-02-26
7.2 Condit	ions for safe storage,	including any inco	mpatibilities
	rements for storage and containers	light. Store in o in a dry, cool a	duct quality, do not store in heat or direct sun- riginal container. Keep containers tightly closed nd well-ventilated place. Keep away from heat ignition. Keep locked up. Keep refrigerated.
Recor peratu	nmended storage tem- ire	: 2-8°C	
•	ic end use(s) fic use(s)	: Consult the tec	hnical guidelines for the use of this sub-

stance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
•		of exposure)	•	
sodium azide	26628-22-8	TWA	0,1 mg/m3	2000/39/EC
Further information	Identifies the	possibility of signification	ant uptake through the skin, I	ndicative
		STEL	0,3 mg/m3	2000/39/EC
Further information	Identifies the	possibility of significa	ant uptake through the skin, I	ndicative
		TWA	0,1 mg/m3	GB EH40
			(Sodium azide)	
Further information	Can be absorbed through skin. The assigned substances are those for which			
	there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	0,3 mg/m3	GB EH40
			(Sodium azide)	
Further information	Can be absorbed through skin. The assigned substances are those for which			
	there are concerns that dermal absorption will lead to systemic toxicity.			

8.2 Exposure controls

Engineering measures

All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

Personal protective equipment

Eye protection	:	No special precautions required.
Hand protection Remarks	:	Disposable gloves
Skin and body protection	:	No special precautions required.
Respiratory protection	:	Engineering controls should always be the primary method of controlling exposures. If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor



Version 1.37	Revision Date: 2018-01-09	SDS Number: 100000010878	Date of last issue: 2017-08-04 Date of first issue: 2015-02-26
		hazards, physic sent.	on the risk assessment and air concentrations, cal and warning properties of substances pre- spiratory protective equipment normally re-
Prote	ective measures	the Environmer	tective equipment must be selected based on ntal Health and Safety risk assessment. Con- nental Health and Safety expert if necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	clear
Odour	:	No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : To avoid thermal decomposition, do not overheat.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

None known.



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-04
1.37	2018-01-09	10000010878	Date of first issue: 2015-02-26

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	
-	
Product:	
Acute oral toxicity	: Acute toxicity estimate: > 2 000 mg/kg Method: Calculation method
Components:	
sodium azide:	
Acute oral toxicity	: LD50 (Rat): 27 mg/kg
Skin corrosion/irritation	
No data available	
Respiratory or skin sensitis	sation
No data available	
Germ cell mutagenicity	
No data available	
Carcinogenicity	
No data available	
Reproductive toxicity	
No data available	
STOT - single exposure	
No data available	
STOT - repeated exposure	
No data available	
Repeated dose toxicity	
No data available	
Aspiration toxicity	
No data available	

SECTION 12: Ecological information

12.1 Toxicity	
<u>Components:</u> sodium azide:	
Toxicity to fish	: LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,7 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia pulex (Water flea)): 4,2 mg/l Exposure time: 96 h



Version 1.37	Revision Date: 2018-01-09	SDS Number: 100000010878	Date of last issue: 2017-08-04 Date of first issue: 2015-02-26
Toxici	ty to algae	: IC50 : 272 mg/l	
Toxicity to bacteria		: EC50 (Photobad	cterium phosphoreum): 38,5 mg/l

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: In accordance with National, Federal, State and Local regula- tions.
Contaminated packaging	: Empty containers should be taken to an approved waste han- dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-04
1.37	2018-01-09	10000010878	Date of first issue: 2015-02-26

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Other regulations : Restricted to professional users.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not applicable (mixture)

SECTION 16: Other information

Full text of H-Statements

H300 :	Fatal if swallowed.
H400 :	Very toxic to aquatic life.
H410 :	Very toxic to aquatic life with long lasting effects.

Date and Number Formats

This document uses the following notation for printing dates and numbers:

Date:	Dec 31th, 2012	as	2012-12-31
Numbers:	123456,78	as	123 456,78

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN



Version 1.2	Revision Date: 2018-01-09	SDS Number: 100000013033	Date of last issue: 2017-08-07 Date of first issue: 2016-11-15		
SECTIO	N 1: Identification o	f the substance/mix	ture and of the company/undertaking		
1.1 Produ	ıct identifier				
Substance name		: Staining Reage	: Staining Reagent		
1.2 Relev	ant identified uses of	f the substance or mix	cture and uses advised against		
	of the Sub- ce/Mixture	: Assay reagent			
1.3 Detail	s of the supplier of t	he safety data sheet			
Com	pany	: Menarini Silicor 3401 Masons M Huntingdon Val USA			
Telep	phone	: 1 (800) 381-492	9		
Telef	ax	:			

E-mail address : Us-info@siliconbiosystems.com Responsible/issuing person

1.4 Emergency telephone number

US: (303) 389-1805 International: +1 (303) 389-1805

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Supplemental Hazard:Not a hazardous substance or mixture ac-
cording to Regulation (EC) No. 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-07
1.2	2018-01-09	10000013033	Date of first issue: 2016-11-15

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

: Liquid

Hazardous components

Remarks : No hazardous ingredients

SECTION 4: First aid measures

4.1 Description of first aid measures				
If inhaled	: If breathed in, move person into fresh air. Consult a physician.			
In case of skin contact	 Take off contaminated clothing and shoes immediately. Wash off with plenty of water. If symptoms persist, call a physician. 			
In case of eye contact	 Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Remove contact lenses. If eye irritation persists, consult a specialist. 			
If swallowed	 If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately. 			

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media	: Use extinguishing measures that are appropriate to local cir-
Suitable extinguishing media	cumstances and the surrounding environment.
5.2 Special hazards arising from the Specific hazards during fire-fighting	



Vers 1.2	ion Revision Date: 2018-01-09	SDS Number: 100000013033	Date of last issue: 2017-08-07 Date of first issue: 2016-11-15
	Hazardous combustion prod- ucts	: No hazardous	combustion products are known
5.3 Advice for firefighters			
Special protective equipment for firefighters		: In the event of	fire, wear self-contained breathing apparatus.
	Further information	: No information	available.

SECTION 6: Accidental release measures

6.1	Personal precautions, protect Personal precautions		e equipment and emergency procedures In the event of an accidental release the emergency response team must respond based on a risk assessment and use per-
			sonal protective equipment as appropriate.
6.2	Environmental precautions		
	Environmental precautions	:	Should not be released into the environment.
6.3	Methods and material for cont	air	nment and cleaning up
	Methods for cleaning up	:	Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers. Small spills: Gently cover the spill with an absorbent towel or pad.
			Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections

For disposal information, see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	 To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required. 	
Advice on protection against fire and explosion	: No data available	
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice.	

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	: To maintain product quality, do not store in heat or direct sun-
areas and containers	light. Store in original container. Keep containers tightly closed



Version 1.2	Revision Date: 2018-01-09	SDS Number: 100000013033	Date of last issue: 2017-08-07 Date of first issue: 2016-11-15
			d well-ventilated place. Keep away from heat gnition. Keep locked up. Keep refrigerated.
Recommended storage tem- perature		: 2-8°C	
7.3 Specific end use(s) Specific use(s)		: Consult the tech stance/mixture.	nical guidelines for the use of this sub-

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
sodium azide	26628-22-8	TWA	0,1 mg/m3	2000/39/EC
Further information	Identifies the	possibility of significa	ant uptake through the skin, I	ndicative
		STEL	0,3 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	0,1 mg/m3	GB EH40
			(Sodium azide)	
Further information	Can be absorbed through skin. The assigned substances are those for which			
	there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	0,3 mg/m3	GB EH40
			(Sodium azide)	
Further information	Can be absorbed through skin. The assigned substances are those for which			
	there are concerns that dermal absorption will lead to systemic toxicity.			

8.2 Exposure controls

Engineering measures

All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

Personal protective equipment

Eye protection	No special precautions required.	
Skin and body protection	No special precautions required.	
Respiratory protection	Engineering controls should always be the primary method controlling exposures. If respiratory protective equipment is needed for certain act ties, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentration hazards, physical and warning properties of substances pre- sent. No personal respiratory protective equipment normally re- quired.	ivi- ` ``



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-07
1.2	2018-01-09	100000013033	Date of first issue: 2016-11-15
Protecti	ve measures	the Environmenta	ctive equipment must be selected based on I Health and Safety risk assessment. Con- ital Health and Safety expert if necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	purple
Odour	:	odourless
рН	:	7,5
Solubility(ies) Water solubility	:	soluble

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions :	No dangerous reaction knowr	n under conditions of normal use.
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10.4 Conditions to avoid

Conditions to avoid	: To avoid thermal decomposition, do not overheat.
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10.5 Incompatible materials

 Materials to avoid
 : Strong acids and strong bases

 Reducing agents
 Oxidizing agents

10.6 Hazardous decomposition products

None known.



Version	Revision Date:	SDS Number:
1.2	2018-01-09	100000013033

Date of last issue: 2017-08-07 Date of first issue: 2016-11-15

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity

: Acute toxicity estimate: > 2 000 mg/kg Method: Calculation method

Acute toxicity estimate: > 2 000 mg/kg Method: Calculation method

Skin corrosion/irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

No data available

Aspiration toxicity

No data available

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

- **12.3 Bioaccumulative potential** No data available
- 12.4 Mobility in soil
 - No data available



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-07
1.2	2018-01-09	10000013033	Date of first issue: 2016-11-15

12.5 Results of PBT and vPvB assessment

Product:

Assessment	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of
	 0.1% or higher This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: In accordance with National, Federal, State and Local regula- tions.
Contaminated packaging	: Empty containers should be taken to an approved waste han- dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable for product as supplied.



Version	Revision Date:	SDS Number:	Date of
1.2	2018-01-09	10000013033	Date of

Date of last issue: 2017-08-07 Date of first issue: 2016-11-15

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Other regulations

: Restricted to professional users.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not applicable (mixture)

SECTION 16: Other information

Date and Number Formats

This document uses the following notation for printing dates and numbers:

Date:	Dec 31th, 2012	as	2012-12-31
Numbers:	123456,78	as	123 456,78

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-03
1.56	2017-12-22	10000010877	Date of first issue: 2015-02-26

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Trade name	: Nucleic acid dye
Substance name	: Nucleic acid dye 7041

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	: Assay reagent
stance/Mixture	

1.3 Details of the supplier of the safety data sheet

Company	: Menarini Silicon Biosystems, Inc 3401 Masons Mill Rd #100 Huntingdon Valley, PA 19006, USA
Telephone	: 1 (800) 381-4929
E-mail address Responsible/issuing person	: Us-info@siliconbiosystems.com
1 Emorgonov tolonhono numb	or

1.4 Emergency telephone number US: (303) 389-1805 International: +1 (303) 389-1805

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)Skin sensitisation, Category 1H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms :

Signal word	:	Warning	
Hazard statements	:	H317	May cause an allergic skin reaction.
Precautionary statements	:	Prevention:	



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-03
1.56	2017-12-22	100000010877	Date of first issue: 2015-02-26
	2	,	
		P261	Avoid breathing dust/ fume/ gas/ mist/ va- pours/ spray.
		P272	Contaminated work clothing should not be allowed out of the workplace.
		P280	Wear protective gloves.
		Response:	1 3
		P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
		P362 + P364	Take off contaminated clothing and wash it before reuse.
		Disposal:	
		P501	Dispose of contents/ container to an ap- proved waste disposal plant.

Hazardous components which must be listed on the label:

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1)

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

: Liquid

3.2 Mixtures

Chemical nature

Hazardous component	S		
Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
mixture of: 5-chloro-2- methyl-4-isothiazolin-3- one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,0015 - < 0,06

Hazardous componente

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled

: If breathed in, move person into fresh air.



Version 1.56	Revision Date: 2017-12-22	SDS Number: 100000010877	Date of last issue: 2017-08-03 Date of first issue: 2015-02-26
		Consult a phys	ician.
In ca	se of skin contact	Wash off imme If symptoms pe	ninated clothing and shoes immediately. diately with plenty of water. rsist, call a physician. lated clothing before re-use.
In ca	se of eye contact	for at least 5 m Remove contac	
lf sw	allowed	: If swallowed, rir scious). Call a physiciar	nse mouth with water (only if the person is con-
4.2 Most	important symptoms a	nd effects, both acu	ite and delayed
Sym	otoms	: No information	available.
4.3 Indica	ation of any immediate	medical attention a	nd special treatment needed
	tment	: Treat symptom	-
SECTIO	N 5: Firefighting mea	sures	
5.1 Extin	guishing media		
	ble extinguishing media		ng measures that are appropriate to local cir- d the surrounding environment.
5.2 Speci	al hazards arising from	the substance or r	nixture
Spec fighti	ific hazards during fire- ng	: No information	available.
5.3 Advic	e for firefighters		
	ial protective equipment refighters	: In the event of	fire, wear self-contained breathing apparatus.
Furth	er information	: No information	available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: In the event of an accidental release the emergency response
	team must respond based on a risk assessment and use per-
	sonal protective equipment as appropriate.



Version 1.56	Revision Date: 2017-12-22	SDS Number: 100000010877	Date of last issue: 2017-08-03 Date of first issue: 2015-02-26
6.2 Enviro	onmental precautions		
Envir	onmental precautions	: Should not be	released into the environment.
6.3 Metho	ods and material for co	ontainment and clea	aning up
Metho	ods for cleaning up	Keep in prope Small spills: G pad. Large spills + for disposal. T	am up. Soak up with inert absorbent material. If labelled containers. ently cover the spill with an absorbent towel or Small spills: Keep in suitable, closed containers reat recovered material as described in the sec- considerations".

6.4 Reference to other sections

For disposal information, see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling Advice on safe handling	:	To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.
Advice on protection against fire and explosion	:	No data available
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.
7.2 Conditions for safe storage in	cli	uding any incompatibilities

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	: To maintain product quality, do not store in heat or direct sun- light. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up. Keep refrigerated.
Recommended storage tem- perature	: 2 - 8 °C
B Specific end use(s)	

Specific use(s)

7.3

: Consult the technical guidelines for the use of this substance/mixture.



Version	Revision Date:	SDS Number:	Dat
1.56	2017-12-22	100000010877	Dat

te of last issue: 2017-08-03 te of first issue: 2015-02-26

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

Personal protective equipme Eye protection		No special precautions required.
Hand protection Remarks	:	Disposable gloves
Skin and body protection	:	No special precautions required.
Respiratory protection	:	Engineering controls should always be the primary method of controlling exposures. If respiratory protective equipment is needed for certain activi- ties, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances pre- sent. No personal respiratory protective equipment normally re- quired.
Protective measures	:	The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Con- sult a Environmental Health and Safety expert if necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	clear, light yellow
Odour	:	odourless
рН	:	7,5
Solubility(ies) Water solubility	:	soluble

9.2 Other information

No data available



Version 1.56	Revision Date: 2017-12-22	SDS Number: 100000010877	Date of last issue: 2017-08-03 Date of first issue: 2015-02-26	
SECTION	N 10: Stability and	reactivity		
10.1 Reac	tivity			
None	reasonably foreseeal	ole.		
10.2 Chen	nical stability			
Stable	e under recommende	d storage conditions.		
10.3 Poss	bibility of hazardous	reactions		
Haza	rdous reactions	: No dangerous reaction known under conditions of normal use.		
10.4 Conc	ditions to avoid			
Cond	litions to avoid	: To avoid thermal decomposition, do not overheat.		
10.5 Incor	mpatible materials			
Mater	Materials to avoid : None known.			
10.6 Haza	rdous decompositio	n products		
None	None known.			

11.1 Information on toxicological effects

Acute toxicity

Components:	
mixture of: 5-chloro-2-methyl- isothiazol-3-one [EC no. 220-2	4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H- 39-6] (3:1):
Acute oral toxicity	 Assessment: The component/mixture is toxic after single ingestion.
	Remarks: Classification according to Regulation 1272/2008 Annex VI
Acute inhalation toxicity	Assessment: The component/mixture is toxic after short term inhalation.
	Remarks: Classification according to Regulation 1272/2008 Annex VI
Acute dermal toxicity	Assessment: The component/mixture is toxic after single contact with skin.
	Remarks: Classification according to Regulation 1272/2008 Annex VI

Skin corrosion/irritation

Components:

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-03
1.56	2017-12-22	10000010877	Date of first issue: 2015-02-26

Species: Rabbit

Result: Corrosive after 3 minutes to 1 hour of exposure

Remarks: Classification according to Regulation 1272/2008 Annex VI

Respiratory or skin sensitisation

Components:

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1): Result: May cause sensitisation by skin contact. Remarks: Classification according to Regulation 1272/2008 Annex VI

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

No data available

Aspiration toxicity

No data available

SECTION 12: Ecological information

12.1 Toxicity

icity)

Components:

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-
isothiazol-3-one [EC no. 220-239-6] (3:1):

Toxicity to fish	: Remarks: Classification according to Regulation 1272/2008 Annex VI
Toxicity to fish (Chronic tox-	: Remarks: Classification according to Regulation 1272/2008

Annex VI

Classification according to Regulation 12/2/2008

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-03
1.56	2017-12-22	10000010877	Date of first issue: 2015-02-26

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	In accordance with National, Federal, State and Local regula- tions.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-03
1.56	2017-12-22	10000010877	Date of first issue: 2015-02-26

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Other regulations

: Restricted to professional users.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not applicable (mixture)

SECTION 16: Other information

Full text of H-Statements

H301 :	Toxic if swallowed.
H311 :	Toxic in contact with skin.
H314 :	Causes severe skin burns and eye damage.
H317 :	May cause an allergic skin reaction.
H318 :	Causes serious eye damage.
H331 :	Toxic if inhaled.
H400 :	Very toxic to aquatic life.
H410 :	Very toxic to aquatic life with long lasting effects.

Date and Number Formats

This document uses the following notation for printing dates and numbers:

Date:	Dec 31th, 2012	as	2012-12-31
Numbers:	123456,78	as	123 456,78

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-03
1.40	2018-01-09	10000010887	Date of first issue: 2015-02-26

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Trade name	 Permeabilization reagent Permeabilization reagent
Substance name	7038

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	: Assay reagent
stance/Mixture	

1.3 Details of the supplier of the safety data sheet

Company	:	Menarini Silicon Biosystems, Inc 3401 Masons Mill Rd #100 Huntingdon Valley, PA 19006 USA			
Telephone	:	1 (800) 381-4929			
Telefax	:				
E-mail address Responsible/issuing person	:	Us-info@siliconbiosystems.com			
Emergency telephone number					

1.4 Emergency telephone number US: (303) 389-1805 International: +1 (303) 389-1805

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Supplemental Hazard	:	Not a hazardous substance or mixture ac-
Statements		cording to Regulation (EC) No. 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-03
1.40	2018-01-09	10000010887	Date of first issue: 2015-02-26

: Liquid

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

Hazardous components Remarks

: No hazardous ingredients

SECTION 4: First aid measures

4.1 Description of first aid measures					
If inhaled	: If breathed in, move person into fresh air. Consult a physician.				
In case of skin contact	 Take off contaminated clothing and shoes immediately. Wash off with plenty of water. If symptoms persist, call a physician. 				
In case of eye contact	: Remove contact lenses. If eye irritation persists, consult a specialist. Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes.				
If swallowed	 If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately. 				
4.2 Most important symptoms and	d offects both south and delayed				

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- : No information available. fighting



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-03
1.40	2018-01-09	10000010887	Date of first issue: 2015-02-26
5.3 Advic	e for firefighters		
Special protective equipment : In the event of fire, w for firefighters		f fire, wear self-contained breathing apparatus.	
Furth	Further information : No information available.		n available.
SECTION	N 6: Accidental releas	se measures	
6.1 Perso	nal precautions, protec	tive equipment a	nd emergency procedures
Perso	onal precautions	: In the event of an accidental release the emergency resporteam must respond based on a risk assessment and use p sonal protective equipment as appropriate.	
6.2 Enviro	onmental precautions		
Envir	onmental precautions	: Should not be released into the environment.	
6.3 Metho	ods and material for cor	ntainment and cle	aning up
Meth	ods for cleaning up	 Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers. Small spills: Gently cover the spill with an absorbent towel o pad. Large spills + Small spills: Keep in suitable, closed containe for disposal. Treat recovered material as described in the set tion "Disposal considerations". 	
6.4 Refere	ence to other sections		

7.1 Precautions for safe handling

Advice on safe handling	:	To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.
Advice on protection against fire and explosion	:	No data available
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	: To maintain product quality, do not store in heat or direct sun-
areas and containers	light. Store in original container. Keep containers tightly closed
	in a dry, cool and well-ventilated place. Keep away from heat
	and sources of ignition. Keep locked up. Keep refrigerated.



Version 1.40	Revision Date: 2018-01-09	SDS Number: 100000010887	Date of last issue: 2017-08-03 Date of first issue: 2015-02-26
Recom peratur	nmended storage tem- re	: 2 - 8 °C	
•	c end use(s) c use(s)	: Consult the techr stance/mixture.	nical guidelines for the use of this sub-

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
sodium azide	26628-22-8	TWA	0,1 mg/m3	2000/39/EC
Further information	Identifies the	possibility of signification	ant uptake through the skin, I	ndicative
		STEL	0,3 mg/m3	2000/39/EC
Further information	Identifies the	possibility of significa	ant uptake through the skin, I	ndicative
		TWA	0,1 mg/m3	GB EH40
			(Sodium azide)	
Further information	Can be absorbed through skin. The assigned substances are those for which			
	there are cond	cerns that dermal ab	sorption will lead to systemic	toxicity.
		STEL	0,3 mg/m3	GB EH40
			(Sodium azide)	
Further information	Can be absor	bed through skin. Th	e assigned substances are t	hose for which
	there are cond	cerns that dermal ab	sorption will lead to systemic	toxicity.

8.2 Exposure controls

Engineering measures

All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

Personal protective equipment

Eye protection	:	No special precautions required.
Hand protection Remarks	:	Disposable gloves
Skin and body protection	:	No special precautions required.
Respiratory protection	:	Engineering controls should always be the primary method of controlling exposures. If respiratory protective equipment is needed for certain activi- ties, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances pre- sent. No personal respiratory protective equipment normally re- quired.



Version	Revision Date: 2018-01-09	SDS Number:	Date of last issue: 2017-08-03
1.40		100000010887	Date of first issue: 2015-02-26
Prote	ctive measures	the Environme	tective equipment must be selected based on ntal Health and Safety risk assessment. Con- nental Health and Safety expert if necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	clear
Odour	:	odourless
рН	:	7,5
Solubility(ies) Water solubility	:	soluble

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	: No dangerous reaction known under conditions of normal use.
---------------------	---

10.4 Conditions to avoid

Conditions to avoid : To avoid thermal decomposition, do not overheat.

10.5 Incompatible materials

Materials to avoid

: Strong acids and strong bases Reducing agents Strong oxidizing agents

10.6 Hazardous decomposition products

None known.



Version	Revision Date:	SDS Number:	Date of
1.40	2018-01-09	10000010887	Date of

Date of last issue: 2017-08-03 Date of first issue: 2015-02-26

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity

: Acute toxicity estimate: > 2 000 mg/kg Method: Calculation method

Skin corrosion/irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

No data available

Aspiration toxicity

No data available

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:



	asinzation roug				
Version 1.40	Revision Date: 2018-01-09	SDS Number: 100000010883	Date of last issue: 2017-08-03 Date of first issue: 2015-02-26		
Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher					
12.6 Other adverse effects No data available					
SECTION	N 13: Disposal cons	iderations			
13.1 Wast	te treatment methods				
Produ	uct	: In accorda tions.	nce with National, Federal, State and Local regula-		
Conta	Contaminated packaging : Empty containers should be taken to an approved waste han-				

dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user Not applicable

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Other regulations : Restricted to professional users.



Version	Revision Date:	SDS Number:	Date of I
1.40	2018-01-09	100000010887	Date of f

Date of last issue: 2017-08-03 Date of first issue: 2015-02-26

15.2 Chemical safety assessment

A Chemical Safety Assessment is not applicable (mixture)

SECTION 16: Other information

Date and Number Formats

This document uses the following notation for printing dates and numbers:				
Date:	Dec 31th, 2012	as	2012-12-31	
Numbers:	123456,78	as	123 456,78	

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GB / EN



Anti-EpCAM ferrofluid

Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-03
1.61	2017-12-22	10000010880	Date of first issue: 2015-02-26

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Trade name Substance name	: Anti-EpCAM ferrofluid : Anti-EpCAM ferrofluid 7036

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	: Assay reagent
stance/Mixture	

1.3 Details of the supplier of the safety data sheet

Company	:	Menarini Silicon Biosystems, Inc 3401 Masons Mill Rd #100 Huntingdon Valley, PA 19006, USA
Telephone	:	1 (800) 381-4929
Telefax	:	
E-mail address Responsible/issuing person	:	Us-info@siliconbiosystems.com
Emergency telephone numbe	r	

1.4 Emergency telephone number US: (303) 389-1805 International: +1 (303) 389-1805

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 H317: M

H317: May cause an allergic skin reaction.

2.2 Label elements

Signal word

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Hazard statements

Precautionary statements



: Prevention:

May cause an allergic skin reaction.

1/9



Anti-EpCAM ferrofluid

-			
Version 1.61	Revision Date: 2017-12-22	SDS Number: 100000010880	Date of last issue: 2017-08-03 Date of first issue: 2015-02-26
			1
		P261	Avoid breathing dust/ fume/ gas/ mist/ va- pours/ spray.
		P272	Contaminated work clothing should not be
		FZIZ	5
		D 000	allowed out of the workplace.
		P280	Wear protective gloves.
		Response:	
		P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
		P362 + P364	Take off contaminated clothing and wash it before reuse.
		Disposal:	
		P501	Dispose of contents/ container to an ap- proved waste disposal plant.

Hazardous components which must be listed on the label:

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

: Liquid

3.2 Mixtures

Chemical nature

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)	
mixture of: 5-chloro-2- methyl-4-isothiazolin-3- one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,0015 - < 0,01	
Substances with a workplace exposure limit :				
Anti-EpCAM mouse mAb conjugated to Ferrofluid	Not Assigned		>= 0,01 - < 0,1	

Hazardous components

For explanation of abbreviations see section 16.



Anti-EpCAM ferrofluid

Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-03
1.61	2017-12-22	10000010880	Date of first issue: 2015-02-26

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled	: If breathed in, move person into fresh air. Consult a physician.
In case of skin contact	 Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. If symptoms persist, call a physician. Wash contaminated clothing before re-use.
In case of eye contact	 Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.
If swallowed	 If swallowed, rinse mouth with water (only if the person is con- scious). Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: No information available.
----------	-----------------------------

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.				
5.2 Special hazards arising from the substance or mixture					
Specific hazards during fire- fighting	: No information available.				
5.3 Advice for firefighters					
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.				
Further information	: No information available.				


Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-03
1.61	2017-12-22	10000010880	Date of first issue: 2015-02-26

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: In the event of an accidental release the emergency response
	team must respond based on a risk assessment and use per- sonal protective equipment as appropriate.

6.2 Environmental precautions

Environmental precautions	:	Should not be released into the environment.
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6.3 Methods and material for containment and cleaning up

		Methods for cleaning up	:	Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers. Small spills: Gently cover the spill with an absorbent towel or pad. Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the sec- tion "Disposal considerations".
--	--	-------------------------	---	--

6.4 Reference to other sections

For disposal information, see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling	
Advice on safe handling	: To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.
Advice on protection against fire and explosion	: No data available
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice.
7.2 Conditions for safe storage, i	ncluding any incompatibilities
Requirements for storage areas and containers	: To maintain product quality, do not store in heat or direct sun- light. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up. Keep refrigerated.
Recommended storage tem- perature	: 2 - 8 °C
7.3 Specific end use(s)	
Specific use(s)	: Consult the technical guidelines for the use of this sub- stance/mixture.



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-03
1.61	2017-12-22	10000010880	Date of first issue: 2015-02-26

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Anti-EpCAM mouse mAb conju- gated to Ferrofluid		PBOEL-HHC	2	J&J OEL/PBOEL HHC
Further information	J&J has a hazard banding notation: PBOEL HHC. This substance is classified by J&J as being PBOEL HHC 2. This means that the OEL is estimated to be from 20 to 100 μ g/m3			

8.2 Exposure controls

Engineering measures

All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

Personal protective equipment

Eye protection	No special precautions required.
Hand protection Remarks	Disposable gloves
Skin and body protection	No special precautions required.
Respiratory protection	 Engineering controls should always be the primary method of controlling exposures. If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present. No personal respiratory protective equipment normally required.
Protective measures	The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Con- sult a Environmental Health and Safety expert if necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	brown



		м	
Version 1.61	Revision Date: 2017-12-22	SDS Number: 100000010880	Date of last issue: 2017-08-03 Date of first issue: 2015-02-26
pН		: 7,5	
	bility(ies) ater solubility	: soluble	
9.2 Other	information		
No da	ata available		
SECTION	N 10: Stability and	reactivity	
10.1 Read	ctivity		
	e reasonably foreseea	ble.	
10.2 Cher	nical stability		
	e under recommende	d storage conditions.	
	sibility of hazardous	-	
	rdous reactions		s reaction known under conditions of normal use
10.4 Cond	ditions to avoid		
Cond	litions to avoid	: To avoid therr	nal decomposition, do not overheat.
10.5 Inco	mpatible materials		
Mate	rials to avoid	: None known.	
	ardous decomposition e known.	on products	
SECTION	N 11: Toxicologica	l information	
	mation on toxicolog		
	e toxicity		
	•		
mixtu			one [EC no. 247-500-7] and 2-methyl-2H-
	iazol-3-one [EC no.		be component/mixture is toxic after single
Acute		ingestion.	he component/mixture is toxic after single
			sification according to Regulation 1272/2008
<u>.</u>			

Acute inhalation toxicity	:	Assessment: The component/mixture is toxic after short term inhalation. Remarks: Classification according to Regulation 1272/2008 Annex VI
Acute dermal toxicity	:	Assessment: The component/mixture is toxic after single



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-03
1.61	2017-12-22	10000010880	Date of first issue: 2015-02-26

contact with skin. Remarks: Classification according to Regulation 1272/2008 Annex VI

Skin corrosion/irritation

Components:

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1): Species: Rabbit Result: Corrosive after 3 minutes to 1 hour of exposure Remarks: Classification according to Regulation 1272/2008 Annex VI

Respiratory or skin sensitisation

Components:

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1): Result: May cause sensitisation by skin contact. Remarks: Classification according to Regulation 1272/2008 Annex VI

Germ cell mutagenicity No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

No data available

Aspiration toxicity

No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):

Toxicity to fish : Remarks: Classification according to Regulation 1272/2008 Annex VI



-	CAW terrotiula			
Version 1.61	Revision Date: 2017-12-22	SDS Number: 100000010880	Date of last issue: 2017-08-03 Date of first issue: 2015-02-26	
Toxic icity)	ity to fish (Chronic tox-	: Remarks: Classi Annex VI	fication according to Regulation 1272/2008	
	istence and degradab ata available	ility		
	ccumulative potential ata available			
	i lity in soil ata available			
12.5 Resu	Ilts of PBT and vPvB a	assessment		
Product: Assessment		to be either per very persistent	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher	
	r adverse effects ata available			
No da		iderations		
No da	ata available N 13: Disposal consi te treatment methods		with National, Federal, State and Local regula-	
No da SECTION 13.1 Wast Produ	ata available N 13: Disposal consi te treatment methods	 In accordance tions. Empty contained 	with National, Federal, State and Local regula- ers should be taken to an approved waste han- cycling or disposal.	
No da SECTION 13.1 Wast Produ Conta	ata available N 13: Disposal consi te treatment methods uct	 In accordance tions. Empty contained dling site for red 	ers should be taken to an approved waste han-	
No da SECTION 13.1 Wast Produ Conta	Ata available N 13: Disposal consi the treatment methods uct aminated packaging N 14: Transport infor	 In accordance tions. Empty contained dling site for red 	ers should be taken to an approved waste han-	
No da SECTION 13.1 Wast Produ Conta SECTION 14.1 UN n	Ata available N 13: Disposal consi the treatment methods uct aminated packaging N 14: Transport infor	 In accordance tions. Empty contained dling site for reader 	ers should be taken to an approved waste han-	
No da No da SECTION 13.1 Wast Produ Conta SECTION 14.1 UN n Not ra 14.2 UN p	Ata available N 13: Disposal consi te treatment methods uct aminated packaging N 14: Transport infor	 In accordance tions. Empty contained dling site for red 	ers should be taken to an approved waste han-	

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user Not applicable



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-03
1.61	2017-12-22	10000010880	Date of first issue: 2015-02-26

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Other regulations : Restricted to professional users.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not applicable (mixture)

SECTION 16: Other information

Full text of H-Statements

H301 :	Toxic if swallowed.
H311 :	Toxic in contact with skin.
H314 :	Causes severe skin burns and eye damage.
H317 :	May cause an allergic skin reaction.
H318 :	Causes serious eye damage.
H331 :	Toxic if inhaled.
H400 :	Very toxic to aquatic life.
H410 :	Very toxic to aquatic life with long lasting effects.

Date and Number Formats

This document uses the following notation for printing dates and numbers:

Date:	Dec 31th, 2012	as	2012-12-31
Numbers:	123456,78	as	123 456,78

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-04
1.40	2018-01-09	10000010879	Date of first issue: 2015-02-26

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Trade name	: Dilution buffer
Substance name	: Dilution buffer 7039

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	: Assay reagent
stance/Mixture	

1.3 Details of the supplier of the safety data sheet

Company	Menarini Silicon 3401 Masons Mi Huntingdon Valle USA	ll Rd #100
Telephone	1 (800) 381-4929)
Telefax		
E-mail address Responsible/issuing person	Js-info@siliconbi	iosystems.com
Emergency telephone number		

1.4 Emergency telephone number US: (303) 389-1805 International: +1 (303) 389-1805

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Supplemental Hazard	:	Not a hazardous substance or mixture ac-
Statements		cording to Regulation (EC) No. 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-04
1.40	2018-01-09	10000010879	Date of first issue: 2015-02-26

: Liquid

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
sodium azide	26628-22-8 247-852-1	Acute Tox. 2; H300 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled	: If breathed in, move person into fresh air. Consult a physician.
In case of skin contact	 Take off contaminated clothing and shoes immediately. Wash off with plenty of water. If symptoms persist, call a physician.
In case of eye contact	 Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.
If swallowed	: If swallowed, rinse mouth with water (only if the person is con- scious). Call a physician immediately.
4.2 Most important symptoms a	nd effects, both acute and delayed
Symptoms	: No information available.
If swallowed 4.2 Most important symptoms a	 for at least 5 minutes. Remove contact lenses. If eye irritation persists, consult a specialist. If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-



Version 1.40	Revision Date: 2018-01-09	SDS Number: 100000010879	Date of last issue: 2017-08-04 Date of first issue: 2015-02-26	
		cumstances a	nd the surrounding environment.	
5.2 Specia	al hazards arising from	the substance or	mixture	
Specific hazards during fire- fighting		: No information	n available.	
5.3 Advice for firefighters				
Special protective equipment for firefighters		: In the event of	fire, wear self-contained breathing apparatus.	
Furth	er information	: No information	n available.	

SECTION 6: Accidental release measures

6.1 Personal precautions, protecti	ive equipment and emergency procedures
Personal precautions	: In the event of an accidental release the emergency response team must respond based on a risk assessment and use per- sonal protective equipment as appropriate.
6.2 Environmental precautions	
Environmental precautions	: Should not be released into the environment.
6.3 Methods and material for cont	ainment and cleaning up
Methods for cleaning up	 Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers. Small spills: Gently cover the spill with an absorbent towel or pad. Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the sec- tion "Disposal considerations".

6.4 Reference to other sections

For disposal information, see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	 To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.
Advice on protection against fire and explosion	: No data available
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice.



Version 1.40	Revision Date: 2018-01-09	SDS Number: 100000010879	Date of last issue: 2017-08-04 Date of first issue: 2015-02-26			
7.2 Condi	7.2 Conditions for safe storage, including any incompatibilities					
Requirements for storage areas and containers		: To maintain product quality, do not store in heat or direct sun- light. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up. Keep refrigerated.				
Recommended storage tem- perature		: 2 - 8 °C				
7.3 Speci	fic end use(s)					
Spec	ific use(s)	: Consult the tec stance/mixture.	hnical guidelines for the use of this sub-			

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
sodium azide	26628-22-8	TWA	0,1 mg/m3	2000/39/EC
Further information	Identifies the	possibility of significa	ant uptake through the skin, I	ndicative
		STEL	0,3 mg/m3	2000/39/EC
Further information	Identifies the	possibility of significa	ant uptake through the skin, I	ndicative
		TWA	0,1 mg/m3	GB EH40
			(Sodium azide)	
Further information	Can be absorbed through skin. The assigned substances are those for which			hose for which
	there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	0,3 mg/m3	GB EH40
			(Sodium azide)	
Further information	Can be absorbed through skin. The assigned substances are those for which			hose for which
	there are concerns that dermal absorption will lead to systemic toxicity.			

8.2 Exposure controls

Engineering measures

All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

Personal protective equipment

Eye protection	:	No special precautions required.
Hand protection Remarks	:	Disposable gloves
Skin and body protection	:	No special precautions required.
Respiratory protection	:	Engineering controls should always be the primary method of controlling exposures. If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor



Version 1.40	Revision Date: 2018-01-09	SDS Number: 100000010879	Date of last issue: 2017-08-04 Date of first issue: 2015-02-26
		hazards, physica sent.	n the risk assessment and air concentrations, al and warning properties of substances pre- piratory protective equipment normally re-
Protective measures		the Environment	ective equipment must be selected based on al Health and Safety risk assessment. Con- ental Health and Safety expert if necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	clear
Odour	:	odourless
рН	:	7,5
Solubility(ies) Water solubility	:	soluble

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	: No dangerous reaction known under conditions of normal use.
---------------------	---

10.4 Conditions to avoid

Conditions to avoid : To avoid thermal decomposition, do not overheat.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

None known.



					Date of last issue: 2017-08-04 Date of first issue: 2015-02-26
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	
Product:	
Acute oral toxicity	: Acute toxicity estimate: > 2 000 mg/kg Method: Calculation method
Components:	
sodium azide:	
Acute oral toxicity	: LD50 (Rat): 27 mg/kg
Skin corrosion/irritation	
No data available	
Respiratory or skin sensitis	sation
No data available	
Germ cell mutagenicity	
No data available	
Carcinogenicity	
No data available	
Reproductive toxicity	
No data available	
STOT - single exposure	
No data available	
STOT - repeated exposure	
No data available	
Repeated dose toxicity	
No data available	
Aspiration toxicity	
No data available	

SECTION 12: Ecological information

12.1 Toxicity	
<u>Components:</u> sodium azide:	
Toxicity to fish	:50 (Lepomis macrochirus (Bluegill sunfish)): 0,7 mg/l posure time: 96 h
Toxicity to daphni aquatic invertebra	50 (Daphnia pulex (Water flea)): 4,2 mg/l posure time: 96 h



Version 1.40	Revision Date: 2018-01-09	SDS Number: 100000010879	Date of last issue: 2017-08-04 Date of first issue: 2015-02-26
Toxicity to algae		: IC50 : 272 mg/l	
Toxicity to bacteria		: EC50 (Photobacterium phosphoreum): 38,5 mg/l	

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: In accordance with National, Federal, State and Local regula- tions.
Contaminated packaging	: Empty containers should be taken to an approved waste han- dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-04
1.40	2018-01-09	10000010879	Date of first issue: 2015-02-26

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user Not applicable

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Not applicable

Other regulations	: Restricted to professional users.
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According to Article 1, item 5 (a) of CLP Regulation (EC) 1272/2008, medicinal products in the finished state for human use, as defined in 2001/83/EC, are excepted from classification and other criteria of 1272/2008.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not applicable (mixture)

SECTION 16: Other information

Full text of H-Statements

H300 :	Fatal if swallowed.
H400 :	Very toxic to aquatic life.
H410 :	Very toxic to aquatic life with long lasting effects.

Date and Number Formats

This document uses the following notation for printing dates and numbers:

Date:	Dec 31th, 2012	as	2012-12-31
Numbers:	123456,78	as	123 456,78

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



Version Revision Date	SDS Number:	Date of last issue: 2017-08-04	
1.40 2018-01-09	100000010879	Date of first issue: 2015-02-26	

GB / EN



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-04
1.45	2018-01-09	100000010702	Date of first issue: 2015-02-26

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	: Cell fixative
Substance name	: Cell fixative
	7042

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	: Assay reagent
stance/Mixture	

1.3 Details of the supplier of the safety data sheet

Company	3401 Masons	con Biosystems, Inc s Mill Rd #100 /alley, PA 19006
Telephone	1 (800) 381-4	1929
Telefax		
E-mail address Responsible/issuing person	Js-info@silic	onbiosystems.com
Emergency telephone number		

1.4 Emergency telephone number US:(303) 389-1805 International: +1 (303) 389-1805

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

2

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Supplemental Hazard Statements

Hazard pictograms



Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.



Version 1.45	Revision Date: 2018-01-09	SDS Number: 100000010702	Date of last issue: 2017-08-04 Date of first issue: 2015-02-26
Signa	al word	: Warning	
Haza	rd statements	: H317	May cause an allergic skin reaction.
Preca	autionary statements	: Prevention: P261	Avoid breathing dust/ fume/ gas/ mist/ va- pours/ spray.
		P272	Contaminated work clothing should not be allowed out of the workplace.
		P280 Response:	Wear protective gloves.
		P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
		P362 + P364	Take off contaminated clothing and wash it before reuse.
		Disposal:	
		P501	Dispose of contents/ container to an ap- proved waste disposal plant.

Hazardous components which must be listed on the label: IMIDUREA

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Liquid

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
IMIDUREA	39236-46-9 254-372-6	Skin Sens. 1; H317	>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled

: If breathed in, move person into fresh air. Consult a physician.



Version 1.45	Revision Date: 2018-01-09	SDS Number: 100000010702	Date of last issue: 2017-08-04 Date of first issue: 2015-02-26
In ca	se of skin contact	Wash off with p	minated clothing and shoes immediately. blenty of water. ersist, call a physician.
In ca	se of eye contact	 Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist. 	
lf swa	allowed	: If swallowed, ri scious). Call a physicia	nse mouth with water (only if the person is cor n immediately.
4.2 Most	important symptoms ar	nd effects, both ac	ute and delayed
Symp	otoms	: No information	available.
	ation of any immediate r tment	medical attention a : Treat symptom	and special treatment needed atically.
Treat	•	: Treat symptom	•
Treat	ment	: Treat symptom	•
Treat	N 5: Firefighting meas	: Treat symptom sures : Use extinguish	•
Treat SECTIOI 5.1 Exting Suita	N 5: Firefighting meas	: Treat symptom sures : Use extinguish cumstances ar	ing measures that are appropriate to local cir- ind the surrounding environment.
Treat SECTION 5.1 Exting Suita 5.2 Speci	Twent N 5: Firefighting meas guishing media ble extinguishing media al hazards arising from ific hazards during fire-	: Treat symptom sures : Use extinguish cumstances ar	ing measures that are appropriate to local cir- ad the surrounding environment.
Treat SECTION 5.1 Exting Suita 5.2 Speci Spec fightin	N 5: Firefighting meas guishing media ble extinguishing media al hazards arising from ific hazards during fire- ng	 Treat symptom Sures Use extinguish cumstances ar the substance or the sub	ing measures that are appropriate to local cir- ad the surrounding environment.
Treat SECTION 5.1 Exting Suita 5.2 Speci Spec fightin Haza ucts	N 5: Firefighting meas guishing media ble extinguishing media al hazards arising from ific hazards during fire- ng	 Treat symptom Sures Use extinguish cumstances ar the substance or the sub	ing measures that are appropriate to local cir- ind the surrounding environment. mixture available.
Treat SECTION 5.1 Exting Suita 5.2 Speci Spec fightin Haza ucts 5.3 Advic Spec	N 5: Firefighting meas guishing media ble extinguishing media al hazards arising from ific hazards during fire- ng ardous combustion prod-	 Treat symptom Use extinguish cumstances ar the substance or the subst	ing measures that are appropriate to local cir- ind the surrounding environment. mixture available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: In the event of an accidental release the emergency response
	team must respond based on a risk assessment and use per-
	sonal protective equipment as appropriate.



Version 1.45	Revision Date: 2018-01-09	SDS Number: 100000010702	Date of last issue: 2017-08-04 Date of first issue: 2015-02-26
	onmental precautions onmental precautions	: Should not be	released into the environment.
	ods and material for co		nning up am up. Soak up with inert absorbent material.
incur		Keep in properly labelled containers. Small spills: Gently cover the spill with an absorbent towel or pad.	
Large spills + Small spills: Keep in suitable, closed co for disposal. Treat recovered material as described in tion "Disposal considerations".		reat recovered material as described in the sec-	

6.4 Reference to other sections

For disposal information, see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling	
Advice on safe handling	 To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.
Advice on protection against fire and explosion	: No data available
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice.
7.2 Conditions for safe storage, in	cluding any incompatibilities
Requirements for storage areas and containers	: To maintain product quality, do not store in heat or direct sun- light. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up. Keep refrigerated.
Recommended storage tem-	: 2 - 8 °C

7.3 Specific end use(s)

perature

Specific use(s)

: Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
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Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-04
1.45	2018-01-09	10000010702	Date of first issue: 2015-02-26

		of exposure)		
sodium azide	26628-22-8	TWA	0,1 mg/m3	2000/39/EC
Further information	Identifies the	possibility of significa	ant uptake through the skin, I	ndicative
		STEL	0,3 mg/m3	2000/39/EC
Further information	Identifies the	possibility of signification	ant uptake through the skin, I	ndicative
		TWA	0,1 mg/m3	GB EH40
			(Sodium azide)	
Further information	Can be absorbed through skin. The assigned substances are those for which			
	there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	0,3 mg/m3	GB EH40
			(Sodium azide)	
Further information	Can be absorbed through skin. The assigned substances are those for which			hose for which
	there are concerns that dermal absorption will lead to systemic toxicity.			

8.2 Exposure controls

Engineering measures

All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

Personal protective equipme Eye protection	o special precaut	ions required.
Hand protection Remarks	isposable gloves	
Skin and body protection	o special precaut	ions required.
Respiratory protection	ontrolling exposur respiratory protect es, the type as we ill depend upon the azards, physical a ent.	els should always be the primary method of res. ctive equipment is needed for certain activi- ell as the corresponding protection factor ne risk assessment and air concentrations, and warning properties of substances pre- atory protective equipment normally re-
Protective measures	e Environmental	ive equipment must be selected based on Health and Safety risk assessment. Con- al Health and Safety expert if necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: clear
Odour	: odourless
рН	: 7,5



Cell fix	ative		
Version 1.45	Revision Date: 2018-01-09	SDS Number: 100000010702	Date of last issue: 2017-08-04 Date of first issue: 2015-02-26
	bility(ies) ater solubility	: soluble	
9.2 Other	information		
No da	ata available		
SECTION	N 10: Stability and	reactivity	
10.1 Reac	tivity		
	reasonably foreseeal	ble.	
10.2 Cher	nical stability		
	e under recommende	d storage conditions.	
10.3 Poss	bility of hazardous	reactions	
	rdous reactions		s reaction known under conditions of normal use.
10.4 Cond	ditions to avoid		
Cond	litions to avoid	: To avoid therr	mal decomposition, do not overheat.
10.5 Incoi	mpatible materials		
Mater	rials to avoid	: Strong acids a Reducing age Oxidizing age	
	r dous decompositio known.	on products	
SECTION	N 11: Toxicologica	information	
11.1 Infor	mation on toxicolog	ical effects	
Acute	e toxicity		
Prod	uct:		
	e oral toxicity	: Acute toxicity e Method: Calcul	estimate: > 2 000 mg/kg lation method
	ponents:		
IMID			

: LD50 (Rabbit): > 5 000 mg/kg

: LD50 (Rat): 11 300 mg/kg

: LC50 (Rat): > 5,5 mg/l Exposure time: 1 h

Acute oral toxicity

Acute inhalation toxicity

Acute dermal toxicity



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-04
1.45	2018-01-09	10000010702	Date of first issue: 2015-02-26

Skin corrosion/irritation

Components:

IMIDUREA: Result: No skin irritation

Serious eye damage/eye irritation

<u>Components:</u> IMIDUREA: Result: No eye irritation

Respiratory or skin sensitisation

Components:

IMIDUREA:

Method: Maximisation Test Result: May cause sensitisation by skin contact.

Method: Local Lymph Node Assay (LLNA) in mice Result: May cause sensitisation by skin contact.

Germ cell mutagenicity

Components:		
IMIDUREA:		
Genotoxicity in vitro :	Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative GLP: yes	
:	Test Type: Chromosome aberration test in vitro Metabolic activation: with and without metabolic activation Result: negative	
Genotoxicity in vivo :	Test Type: Micronucleus test Species: Mouse Application Route: Oral Result: negative	
Germ cell mutagenicity- As- : sessment	No information available.	
Carcinogenicity		
Components: IMIDUREA: Carcinogenicity - Assess- ment	No information available.	



Coll fivativo

Cell fixative				
Version 1.45	Revision Date: 2018-01-09	SDS Number: 100000010702	Date of last issue: 2017-08-04 Date of first issue: 2015-02-26	
Repr	oductive toxicity			
<u>Com</u>	ponents:			
IMID	UREA:			
Terat	togenicity - Assessment	: No information a	vailable.	
STO.	T - single exposure			
No da	ata available			
	T - repeated exposure			
No da	ata available			
Repe	eated dose toxicity			
	ponents:			
	UREA:			
	ies: Rat EL: 200 mg/kg			
LOAI	EL: 500 mg/kg			
Appli	cation Route: Oral			
	ies: Rabbit			
	EL: 200 mg/kg cation Route: Dermal			
Дри				
Aspi	ration toxicity			
No da	ata available			
SECTIO	N 12: Ecological info	rmation		
12.1 Toxi	city			
Com	ponents:			
	UREA:			
Toxic	city to fish	: Remarks: No da	ta available	
	istence and degradabil	lity		
	ponents:			
	UREA:			
Biode	egradability	: Remarks: No da	ta available	
12.3 Bioa	ccumulative potential			
Com	ponents:			
	UREA:			
Bioad	ccumulation	: Remarks: No da	ta available	



Cell fixative				
Version 1.45	Revision Date: 2018-01-09	SDS Number: 100000010702	Date of last issue: 2017-08-04 Date of first issue: 2015-02-26	
12.4 Mob	ility in soil			
IMID Distr	Components: IMIDUREA: Distribution among environ- : Remarks: No data available mental compartments			
12.5 Res	12.5 Results of PBT and vPvB assessment			
Proc	luct:			
Asse	essment	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of	
IMID	uponents: UREA: essment	: No information av	vailable	
12.6 Oth	er adverse effects			
	iponents: UREA:			
Addi mati	tional ecological infor- on	: Remarks: No dat	a available	
SECTION 13: Disposal considerations				

13.1 Waste treatment methods

Product	: In accordance with National, Federal, State and Local regulations.	a-
Contaminated packaging	: Empty containers should be taken to an approved waste har dling site for recycling or disposal.	n-

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good



Version	Revision Date:	SDS Number:	Date of last issue: 2017-08-04
1.45	2018-01-09	10000010702	Date of first issue: 2015-02-26

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user Not applicable

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Other regulations : Restricted to professional users.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not applicable (mixture)

SECTION 16: Other information

H317

: May cause an allergic skin reaction.

Date and Number Formats

This document uses the following notation for printing dates and numbers:

Date:	Dec 31th, 2012	as	2012-12-31
Numbers:	123456,78	as	123 456,78

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