

Vers 1.1	ion	Revision Date: 09.01.2018		OS Number: 0000010878	Date of last issue: 15.11.2016 Date of first issue: 15.11.2016		
SEC	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION						
	Product name		:	Capture enhancement reagent			
	Substance name		:	Capture enhancer 7037	ment reagent		
	Manufacturer or supplier's details						
	Company			Menarini Silicon Biosystems, Inc.			
	Address		:	3401 Masons Mill Rd #100 Huntingdon Valley, PA 19006, USA			
	Telepho	one	:	1 (800) 381-4929			
	Emergency telephone number			US : (303)-389-1805 International: +1 (303)-389-1805			
E-mail address Responsible/issuing person			:	Us-info@siliconbiosystems.com			
	Recommended use of the chemical and restrictions on use						

Recommended use : Assay reagent

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Liquid

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
sodium azide	26628-22-8	< 10

SECTION 4. FIRST AID MEASURES

If inhaled

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



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In c	ase of skin contact	Wash off with p	ninated clothing and shoes immediately. lenty of water. rsist, call a physician.
In c	ase of eye contact	for at least 5 mi Remove contac	
lf sv	vallowed	: If swallowed, rir scious). Call a physician	nse mouth with water (only if the person is con-
and	st important symptoms effects, both acute and ayed	: No information	available.
Not	es to physician	: Treat symptoma	atically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.	
Specific hazards during fire- fighting	: No information available.	
Specific extinguishing meth- ods	: No information available.	
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.	

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency 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.
Environmental precautions	:	Should not be released into the environment.
Methods and materials for containment and 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".

SECTION 7. HANDLING AND STORAGE

Advice on protection against	:	No data available
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Versio 1.1	on	Revision Date: 09.01.2018		lumber: 0010878	Date of last issue: 15.11.2016 Date of first issue: 15.11.2016			
fire and explosion								
Advice on safe handling			Av	: To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.				
Hygiene measures			: Handle in accordance with good industrial hygiene and safety practice.					
Conditions for safe storage		 To maintain product quality, do not store in heat or direct s 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. 						
	Recom peratur	mended storage tem- e	: 2-	8 °C				

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

components with workplace control parameters					
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
sodium azide	26628-22-8	Peak limit	0.11 ppm 0.3 mg/m3	AU OEL	
			sure standards are es d converted into volur		
		C (Vapour)	0.11 ppm (Hydrazoic acid)	ACGIH	
		С	0.29 mg/m3 (Sodium azide)	ACGIH	

Components with workplace control parameters

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

Personal protective equipment

Respiratory protection	: Engineering controls should always be the primary method of controlling exposures.
	If respiratory protective equipment is needed for certain activ-
	ities, 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.

Hand protection



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Remarks		: Disposable gloves				
Eye protection		: No special precautions required.				
Skin and body protection		: No special precautions 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

Appearance	: li	iquid
Colour	: c	clear
Odour	: N	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: None reasonably foreseeable.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reac- : No dangerous reaction known under conditions of normal tions	
Conditions to avoid	: To avoid thermal decomposition, do not overheat.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Product:	
Acute oral toxicity	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
<u>Components:</u> sodium azide:	
Acute oral toxicity	: LD50 (Rat): 27 mg/kg
Skin corrosion/irritation	
No data available	
Serious eye damage/eye ir	rritation
No data available	



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Res	piratory or skin sens	itisation	
No c	lata available		
Chro	onic toxicity		
Geri	m cell mutagenicity		
No c	lata available		
Card	cinogenicity		
No c	lata available		
Rep	roductive toxicity		
No c	lata available		
STO	T - single exposure		
No c	lata available		
STO	T - repeated exposur	e	
No c	lata available		
Rep	eated dose toxicity		
No c	lata available		
Asp	iration toxicity		
No c	lata available		

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	
<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
Toxicity to algae	: IC50: 272 mg/l
Toxicity to bacteria	: EC50 (Photobacterium phosphoreum): 38.5 mg/l

I oxicity to bacteria	: EC50 (Photobacterium phosphoreum): 38.5 mg
Persistence and degradability	у
No data available	
Bioaccumulative potential	
No data available	
Mobility in soil	
No data available	
Other adverse effects	
No data available	

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SECTION	13. DISPOSAL CON	ISIDERATIONS	
Disp	osal methods		
Was	te from residues	: In accordance tions.	with National, Federal, State and Local regula-
Cont	aminated packaging		ers should be taken to an approved waste han- ecycling or disposal.
SECTION	I 14. TRANSPORT IN	FORMATION	
Inter	national Regulations	5	
Not I IATA Not I	TDG regulated as a danger A-DGR regulated as a danger G-Code regulated as a danger	ous good	
	sport in bulk accord	-	RPOL 73/78 and the IBC Code
Nati	onal Regulations		
ADG Not i	i regulated as a danger	ous good	

SDS Number:

SECTION 15. REGULATORY INFORMATION

Safety, health and envir ture	onmental regulation	s/legislation specific for the substance or mix-
Restricted to professional R-phrase(s)	users. : R22	Harmful if swallowed.
S-phrase(s)	: S60	This material and its container must be disposed of as hazardous waste.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations



Version	Revision Date:	SDS Number:	Date of last issue: 15.11.2016
1.1	09.01.2018	10000010878	Date of first issue: 15.11.2016

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration: ICAO - International Civil Aviation Organization: IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NOM - Official Mexican Norm: NTP - National Toxicology Program: NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

Date format: dd.mm.yyyyNumbers123,456.78

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.

AU / EN

SAFETY DATA SHEET Staining Reagent



Versi 1.1	ion	Revision Date: 09.01.2018		DS Number: 0000013033	Date of last issue: 15.11.2016 Date of first issue: 15.11.2016
SEC	TION 1	. PRODUCT AND CO	MP/	ANY IDENTIFICAT	ION
	Substa	nce name	:	Staining Reagent	
	Manufa	acturer or supplier's	deta	ails	
	Compa	ny	:	Menarini Silicon E	Biosystems, Inc.
	Addres	S	:	3401 Masons Mill Huntingdon Valle USA	
	Teleph	one	:	1 (800) 381-4929	
	Emerg numbe	ency telephone r	:	US : (303)-389-18 International: +1	
		address nsible/issuing person	:	Us-info@siliconb	iosystems.com
	Recom	mended use of the c	hen	nical and restriction	ons on use
	Recom	mended use	:	Assay reagent	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture. Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture. Not a hazardous substance or mixture.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance /	Mixture	:	Mixture
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Chemical nature	:	Liquid

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
sodium azide	26628-22-8	< 10

SECTION 4. FIRST AID MEASURES

If inhaled

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

SAFETY DATA SHEET

Version 1.1	Revision Date: 09.01.2018	SDS Number: 100000013033	Date of last issue: 15.11.2016 Date of first issue: 15.11.2016
In c	case of skin contact	Wash off with p	ninated clothing and shoes immediately. plenty of water. ersist, call a physician.
In c	case of eye contact	for at least 5 m Remove contac	
If swallowed		: If swallowed, ri scious). Call a physiciar	nse mouth with water (only if the person is con- n immediately.
and	st important symptoms I effects, both acute and ayed	: No information	available.
Not	tes to physician	: Treat symptom	atically.

MENARINI silicon biosystems

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Specific hazards during fire- fighting	: No information available.
Hazardous combustion prod- ucts	: No hazardous combustion products are known
Specific extinguishing meth- ods	: No information available.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency 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.
Environmental precautions	:	Should not be released into the environment.
Methods and materials for containment and 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".



Version 1.1	Revision Date: 09.01.2018	SDS Numbe 1000000130	
SECTIO	N 7. HANDLING AND ST	ORAGE	
	ice on protection against and explosion	: No data	available
Adv	ice on safe handling	Avoid in	d thermal decomposition, do not overheat. halation, ingestion and contact with skin and eyes. sonal protective equipment as required.
Hyg	iene measures	: Handle i practice.	in accordance with good industrial hygiene and safety.
Con	ditions for safe storage	light. Store in Keep co ventilate Keep aw Keep loo	vay from heat and sources of ignition.
	commended storage tem- ature	: 2 - 8 °C	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
sodium azide	26628-22-8	Peak limit	0.11 ppm 0.3 mg/m3	AU OEL
	Further information: The exposure standards are established as gravimetric (mg/m ³) values and converted into volumetric values			
		C (Vapour)	0.11 ppm (Hydrazoic acid)	ACGIH
		С	0.29 mg/m3 (Sodium azide)	ACGIH

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

Personal protective equipment

Respiratory protection	: Engineering controls should always be the primary method of controlling exposures.
	If respiratory protective equipment is needed for certain activ- ities, 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-

No personal respiratory protective equipment normally re-



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		quired.			
Eye protection		: No special precautions required.			
Skin and body protection		: No special precautions required.			
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

Appearance	:	liquid
Colour	:	purple
Odour	:	odourless
рН	:	7.5
Solubility(ies) Water solubility	:	soluble

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: None reasonably foreseeable.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reac- tions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: To avoid thermal decomposition, do not overheat.
Incompatible materials	: Strong acids and strong bases Reducing agents Oxidizing agents
Hazardous decomposition products	: None known.

SECTION 11. TOXICOLOGICAL INFORMATION

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

SAFETY DATA SHEET



ersion .1	Revision Date: 09.01.2018	SDS Number: 100000013033	Date of last issue: 15.11.2016 Date of first issue: 15.11.2016
sodiu	ponents: um azide: e oral toxicity	: LD50 (Rat): 27	′ mg/kg
Skin	corrosion/irritation		
No da	ata available		
Seric	ous eye damage/eye	irritation	
No da	ata available		
Resp	iratory or skin sensi	tisation	
No da	ata available		
Chro	nic toxicity		
Germ	n cell mutagenicity		
No da	ata available		
Carc	inogenicity		
No da	ata available		
Repr	oductive toxicity		
No da	ata available		
STO	Γ - single exposure		
No da	ata available		
STO	F - repeated exposur	e	
No da	ata available		
Repe	ated dose toxicity		
No da	ata available		
-	ration toxicity		
No de	ata available		

Ecotoxicity	
<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
Toxicity to algae	: IC50: 272 mg/l
Toxicity to bacteria	: EC50 (Photobacterium phosphoreum): 38.5 mg/l

SAFETY DATA SHEET



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Pors	istence and degrada	bility	
	ata available	bility	
	ccumulative potentia	al	
	ata available		
Mobi	lity in soil		
No da	ata available		
Othe	r adverse effects		
No da	ata available		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Waste from residues	accordance with National, Federal, State a ons.	nd Local regula-
Contaminated packaging	mpty containers should be taken to an appro ling site for recycling or disposal.	oved waste han-

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

ADG Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

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

Restricted to professional users. R-phrase(s) : R22

Harmful if swallowed.



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S-phrase(s)		: S60	This material and its container must be disposed of as hazardous waste.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet: TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

Date format	: dd.mm.yyyy
Numbers	123,456.78

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SECTION	1. PRODUCT AND CO	MP		ION	
Produ	ict name	:	Nucleic acid dye		
Subst	ance name	:	Nucleic acid dye 7041		
Manufacturer or supplier's details					
Comp	bany	:	Menarini Silicon E	Biosystems, Inc.	
Addre	ess	:	3401 Masons Mill Huntingdon Valley USA		
Telep	hone	:	1 (800) 381-4929		
Emer numb	gency telephone per	:	US : (303)-389-18 International: +1		
=	il address onsible/issuing person	:	Us-info@siliconbiosystems.com		
Reco	mmended use of the o	hen	nical and restriction	ons on use	
Recor	mmended use	:	Assay reagent		

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Chemical nature :	Liquid
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Hazardous components

No hazardous ingredients

SECTION 4. 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.



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		If symptoms p	ediately with plenty of water. ersist, call a physician. nated clothing before re-use.
In cas	se of eye contact	for at least 5 m Remove conta	
lf swa	allowed	scious).	inse mouth with water (only if the person is con- n immediately.
	important symptoms iffects, both acute and ed	: No information	available.
Notes	s to physician	: Treat symptom	natically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Specific hazards during fire- fighting	: No information available.
Specific extinguishing meth- ods	: No information available.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency 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.
Environmental precautions	:	Should not be released into the environment.
Methods and materials for containment and 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".

SECTION 7. HANDLING AND STORAGE

Advice on protection against	:	No data available
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fir	re and	explosion			
A	dvice	on safe handling	:	Avoid inhalation,	decomposition, do not overheat. ingestion and contact with skin and eyes. tective equipment as required.
Н	lygien	e measures	:	Handle in accorda practice.	ance with good industrial hygiene and safety
С	Conditi	ons for safe storage	 To maintain product quality, do not store in heat or d 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. 		ontainer. ightly closed in a dry, cool and well- neat and sources of ignition.
	Recom	mended storage tem- e	:	2 - 8 °C	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	:	All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.
Personal protective equipme	ent	
Respiratory protection	:	Engineering controls should always be the primary method of controlling exposures. If respiratory protective equipment is needed for certain activ- ities, 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.
Hand protection		
Remarks	:	Disposable gloves
Eye protection	:	No special precautions required.
Skin and body protection	:	No special precautions required.
Protective measures	:	The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Consult a Environmental Health and Safety expert if necessary.



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SECTION	9. PHYSICAL AND C	CHEMICAL PROPERT	TIES
Appe	earance	: liquid	
Colou	ur	: clear, light yel	llow
Odou	ır	: odourless	
pН		: 7.5	
	bility(ies) ater solubility	: soluble	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: None reasonably foreseeable.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reac- tions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: To avoid thermal decomposition, do not overheat.
Incompatible materials	: None known.
Hazardous decomposition products	: None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
No data available
Respiratory or skin sensitisation
No data available
Chronic toxicity
Chronic toxicity Germ cell mutagenicity
-
Germ cell mutagenicity
Germ cell mutagenicity No data available
Germ cell mutagenicity No data available Carcinogenicity
Germ cell mutagenicity No data available Carcinogenicity No data available



Version 1.9	Revision Date: 09.01.2018	SDS Number: 100000010877	Date of last issue: 27.10.2016 Date of first issue: 18.09.2015
STO	Г - single exposure		
No da	ata available		
STO	F - repeated exposur	e	
No da	ata available		
Repe	ated dose toxicity		
No da	ata available		
Aspii	ration toxicity		
No da	ata available		
SECTION	12. ECOLOGICAL IN	FORMATION	

Ecotoxicity
No data available
Persistence and degradability
No data available
Bioaccumulative potential
No data available
Mobility in soil
No data available
Other adverse effects
No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: 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

International Regulations

UNRTDG Not regulated as a dangerous good IATA-DGR Not regulated as a dangerous good IMDG-Code Not regulated as a dangerous good



Version 1.9	Revision Date: 09.01.2018	SDS Number: 100000010877	Date of last issue: 27.10.2016 Date of first issue: 18.09.2015
Not a	sport in bulk according applicable for product as	-	ARPOL 73/78 and the IBC Code
ADG	-	s good	
SECTION	I 15. REGULATORY INI	FORMATION	
Safe ture	ty, health and environr	nental regulation	s/legislation specific for the substance or mix-
	ricted to professional use rase(s)	ers. : R43	May cause sensitisation by skin contact.
S-ph	rase(s)	: S24	Avoid contact with skin.

Wear suitable gloves.

This material and its container must be disposed of as hazardous waste.

S37

S60

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concern-



Version	Revision Date:	SDS Number:	Date of last issue: 27.10.2016
1.9	09.01.2018	10000010877	Date of first issue: 18.09.2015

ing the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Date format	:	dd.mm.yyyy
Numbers		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.

AU / EN



Version 1.12	Revision Date: 09.01.2018		DS Number: 0000010887	Date of last issue: 27.10.2016 Date of first issue: 18.09.2015		
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION						
Produc	ct name	:	Permeabilization	reagent		
Substa	ince name	:	Permeabilization 7038	reagent		
Manuf	acturer or supplier's	deta	ails			
Compa	••	:	Menarini Silicon E	Biosystems, Inc.		
Addres	SS	:	3401 Masons Mill Huntingdon Valley USA			
Teleph	one	:	1 (800) 381-4929			
Emerg numbe	jency telephone er	:	US : (303)-389-18 International: +1			
	address nsible/issuing person	:	Us-info@siliconbio	systems.com		
Recon	nmended use of the c	hen	nical and restriction	ons on use		
Recom	nmended use	:	Assay reagent			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
---------------------	---	---------

Chemical nature	:	Liquid
-----------------	---	--------

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
sodium azide	26628-22-8	< 10

SECTION 4. FIRST AID MEASURES

If inhaled

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



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In case	e of skin contact	Wash off with p	minated clothing and shoes immediately. plenty of water. ersist, call a physician.
In case	e of eye contact		persists, consult a specialist. tely with plenty of water, also under the eyelids,
lf swal	lowed	: If swallowed, ri scious). Call a physicia	nse mouth with water (only if the person is con- n immediately.
	mportant symptoms fects, both acute and ed	: No information	available.
Notes	to physician	: Treat symptom	atically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Specific hazards during fire- fighting	: No information available.
Specific extinguishing meth- ods	: No information available.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency 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.
Environmental precautions	:	Should not be released into the environment.
Methods and materials for containment and 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".

SECTION 7. HANDLING AND STORAGE

Advice on protection against	: No data available	
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fire an	d explosion		
Advice	e on safe handling	Avoid inhalation	al decomposition, do not overheat. , ingestion and contact with skin and eyes. otective equipment as required.
Hygiei	ne measures	: Handle in accord practice.	dance with good industrial hygiene and safety
Condi	tions for safe storage	 To maintain product quality, do not store in heat or direct 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. 	
Recon peratu	nmended storage tem- ire	: 2-8 °C	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

		.013		
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
sodium azide	26628-22-8	Peak limit	0.11 ppm 0.3 mg/m3	AU OEL
			sure standards are es d converted into volur	
		C (Vapour)	0.11 ppm (Hydrazoic acid)	ACGIH
		С	0.29 mg/m3 (Sodium azide)	ACGIH

Components with workplace control parameters

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

Personal protective equipment

Respiratory protection	: Engineering controls should always be the primary method of controlling exposures.
	If respiratory protective equipment is needed for certain activ-
	ities, 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.

Hand protection



Version 1.12	Revision Date: 09.01.2018	SDS Number: 100000010887	Date of last issue: 27.10.2016 Date of first issue: 18.09.2015		
Re	marks	: Disposable glov	ves		
Eye protection		: No special precautions required.			
Skin and body protection		: No special precautions required.			
Prote	ctive measures	the Environmen	tective equipment must be selected based on tal Health and Safety risk assessment. Con- ental Health and Safety expert if necessary.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear
Odour	:	odourless
рН	:	7.5
Solubility(ies) Water solubility	:	soluble

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: None reasonably foreseeable.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reac- tions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: To avoid thermal decomposition, do not overheat.
Incompatible materials	: Strong acids and strong bases Reducing agents Strong oxidizing agents
Hazardous decomposition products	: None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity	
<u>Product:</u> Acute oral toxicity	: Acute toxicity estimate: > 2,000 mg/kg
	Method: Calculation method
<u>Components:</u> sodium azide:	



/ersion I.12	Revision Date: 09.01.2018	SDS Number: 100000010887	Date of last issue: 27.10.2016 Date of first issue: 18.09.2015
Acute	e oral toxicity	: LD50 (Rat): 27	mg/kg
	corrosion/irritation ata available		
	ous eye damage/eye i ata available	rritation	
-	iiratory or skin sensi a ata available	tisation	
Chro	nic toxicity		
Germ	n cell mutagenicity		
No da	ata available		
Carc	inogenicity		
No da	ata available		
Repr	oductive toxicity		
No da	ata available		
STO	T - single exposure		
No da	ata available		
STO	T - repeated exposure	9	
No da	ata available		
Repe	eated dose toxicity		
No da	ata available		
•	ration toxicity		
No da	ata available		

Ecotoxicity

<u>Components:</u>

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.7 mg/ Exposure time: 96 h	ł
Toxicity to daphnia and other aquatic invertebratesEC50 (Daphnia pulex (Water flea)): 4.2 mg/l Exposure time: 96 h	
Toxicity to algae : IC50: 272 mg/l	
Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 38.5 mg/l	

Persistence and degradability

No data available



Version 1.12	Revision Date: 09.01.2018	SDS Number: 100000010887	Date of last issue: 27.10.2016 Date of first issue: 18.09.2015
Bioa	ccumulative potential		
No d	ata available		
Mob	ility in soil		
No d	ata available		
Othe	er adverse effects		
No d	ata available		
SECTION	I 13. DISPOSAL CONS	IDERATIONS	
Disp	osal methods		
Wast	te from residues	: In accordance tions.	with National, Federal, State and Local regula-
Cont	aminated packaging	: Empty containe	ers should be taken to an approved waste han-

dling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

ADG

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mix-
ture
Restricted to professional users.

R-phrase(s)	: R22
S-phrase(s)	: S60

This material and its container must be disposed of as hazardous waste.

Harmful if swallowed.



Version 1.12 Revision Date: 09.01.2018

Date of last issue: 27.10.2016 Date of first issue: 18.09.2015

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances: ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances: (Q)SAR - (Quantitative) Structure Activity Relationship: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

Date format: dd.mm.yyyyNumbers123,456.78

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Version 1.11	Revision Date: 09.01.2018		DS Number: 0000010880	Date of last issue: 15.11.2016 Date of first issue: 18.09.2015
SECTION 1	. PRODUCT AND CO	MP		ION
Produc	ct name	:	Anti-EpCAM ferro	fluid
Substa	ance name	:	Anti-EpCAM ferro 7036	fluid
Manuf	acturer or supplier's	deta	ails	
Compa	any	:	Menarini Silicon E	biosystems, Inc
Addres	SS	:	3401 Masons Mill Huntingdon Valley USA	
Teleph	ione	:	1 (800) 381-4929	
Emerg numbe	jency telephone er	:	US : (303)-389-18 International: +1	
=	address nsible/issuing person	:	Us-info@siliconbic	osystems.com
Recon	nmended use of the c	hen	nical and restriction	ons on use
Recon	nmended use	:	Assay reagent	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance /	Mixture	:	Mixture
-------------	---------	---	---------

Chemical nature : Liquid

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Anti-EpCAM mouse mAb conjugated to Ferroflu-	Not Assigned	< 10
id		

SECTION 4. FIRST AID MEASURES

If inhaled

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



Version 1.11	Revision Date: 09.01.2018	SDS Number: 100000010880	Date of last issue: 15.11.2016 Date of first issue: 18.09.2015
In case	e of skin contact	Wash off immed If symptoms per	ninated clothing and shoes immediately. diately with plenty of water. rsist, call a physician. ated clothing before re-use.
In case	e of eye contact	for at least 5 min Remove contac	
lf swal	lowed	: If swallowed, rin scious). Call a physician	se mouth with water (only if the person is con- immediately.
	mportant symptoms fects, both acute and d	: No information a	available.
Notes	to physician	: Treat symptoma	atically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Specific hazards during fire- fighting	: No information available.
Specific extinguishing meth- ods	: No information available.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency 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.
Environmental precautions	:	Should not be released into the environment.
Methods and materials for containment and 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".

SECTION 7. HANDLING AND STORAGE



Version 1.11	Revision Date: 09.01.2018	SDS Number: 100000010880	Date of last issue: 15.11.2016 Date of first issue: 18.09.2015				
Advice on protection against fire and explosion		: No data availal	: No data available				
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. 					
Hygiene measures		: Handle in accordance with good industrial hygiene and safety practice.					
Conditions for safe storage		light. Store in origina Keep containe ventilated place	rs tightly closed in a dry, cool and well- e. m heat and sources of ignition. o.				
Recommended storage tem- perature		: 2 - 8 °C					

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Anti-EpCAM mouse mAb con- jugated to Ferrofluid	Not Assigned	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			
Engineering measures	: All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.			
Personal protective equipmen	nt			
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. 			ertain activ- on factor entrations, nces pre-
Hand protection				
Remarks	: Disposable gl	oves		



Version 1.11	Revision Date: 09.01.2018	SDS Number: 100000010880	Date of last issue: 15.11.2016 Date of first issue: 18.09.2015		
Eye protection		: No special precautions required.			
Skin and body protection		: No special precautions required.			
Protective measures		the Environmer	: 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

Appearance	:	liquid
Colour	:	brown
рН	:	7.5
Solubility(ies) Water solubility	:	soluble

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: None reasonably foreseeable.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reac- tions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: To avoid thermal decomposition, do not overheat.
Incompatible materials	: None known.
Hazardous decomposition products	: None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
No data available
Respiratory or skin sensitisation



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Chro	onic toxicity		
Gern	n cell mutagenicity		
No da	ata available		
Carc	inogenicity		
No da	ata available		
Repr	oductive toxicity		
No da	ata available		
STO	T - single exposure		
No da	ata available		
STO	T - repeated exposure	9	
No da	ata available		
Repe	eated dose toxicity		
No da	ata available		
Aspi	ration toxicity		
No da	ata available		

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Other adverse effects No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	In accordance with National, Federal, State and Local regutions.	la-
Contaminated packaging	Empty containers should be taken to an approved waste had dling site for recycling or disposal.	an-

SECTION 14. TRANSPORT INFORMATION

International Regulations



Version 1.11	Revision Date: 09.01.2018	SDS Number: 100000010880	Date of last issue: 15.11.2016 Date of first issue: 18.09.2015					
Not IAT Not IMD	RTDG regulated as a dangerou A-DGR regulated as a dangerou G-Code regulated as a dangerou	s good						
	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.							
Nati	onal Regulations							
ADC Not	3 regulated as a dangerou	s good						
SECTIO	N 15. REGULATORY IN	FORMATION						
Safe ture		mental regulations/I	egislation specific for the substance or mix-					
	tricted to professional us nrase(s)	ers. : R43	May cause sensitisation by skin contact.					
S-pł	nrase(s)	: S24	Avoid contact with skin.					

S37

S60

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

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Wear suitable gloves.

This material and its container must be

disposed of as hazardous waste.



Version	Revision Date:	SDS Number:
1.11	09.01.2018	100000010880

Date of last issue: 15.11.2016 Date of first issue: 18.09.2015

vention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

Date format	:	dd.mm.yyyy
Numbers		123,456.78

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AU / EN

SAFETY DATA SHEET Dilution buffer



Version 1.12	Revision Date: 09.01.2018		DS Number: 0000010879	Date of last issue: 27.10.2016 Date of first issue: 18.09.2015			
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION							
Product name		:	Dilution buffer				
Substance name		:	Dilution buffer 7039				
Manufacturer or supplier's details							
Company		:	Menarini Silicon Biosystems, Inc				
Address		:	3401 Masons Mill Rd #100 Huntingdon Valley, PA 19006, USA				
Telephone		:	1 (800) 381-4929				
Emergency telephone : number		:	US : (303)-389-1805 International: +1 (303)-389-1805				
E-mail address : Responsible/issuing person		:	Us-info@siliconbiosystems.com				
Recommended use of the che		hen	mical and restrictions on use				
Recom	Recommended use :		Assay reagent				

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture :		Mixture
-----------------------	--	---------

Chemical	nature	: 1	Liquid

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
sodium azide	26628-22-8	< 10

SECTION 4. FIRST AID MEASURES

If inhaled

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



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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. 		
	mportant symptoms ffects, both acute and ed	: No information	available.	
Notes	to physician	: Treat symptom	natically.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Specific hazards during fire- fighting	: No information available.
Specific extinguishing meth- ods	: No information available.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency 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.
Environmental precautions	:	Should not be released into the environment.
Methods and materials for containment and 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".

SECTION 7. HANDLING AND STORAGE

Advice on protection against	: No data available	
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fire ar	nd explosion				
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.			
Hygiene measures		: Handle in accordance with good industrial hygiene and safety practice.			
Conditions for safe storage		light. Store in original Keep containers ventilated place	s tightly closed in a dry, cool and well- n heat and sources of ignition.		
Recor peratu	nmended storage tem- Ire	: 2 - 8 °C			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters					
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
sodium azide	26628-22-8	Peak limit	0.11 ppm 0.3 mg/m3	AU OEL	
	Further information: The exposure standards are established as gravimetric (mg/m ³) values and converted into volumetric values				
		C (Vapour)	0.11 ppm (Hydrazoic acid)	ACGIH	
		С	0.29 mg/m3 (Sodium azide)	ACGIH	

Components with workplace control parameters

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

Personal protective equipment

Respiratory protection	: Engineering controls should always be the primary method of controlling exposures.
	If respiratory protective equipment is needed for certain activ- ities, 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.

Hand protection



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Remarks		: Disposable gloves		
Eye protection		: No special precautions required.		
Skin and body protection		: No special precautions required.		
Protective measures		the Environmen	: 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

Appearance	:	liquid
Colour	:	clear
Odour	:	odourless
рН	:	7.5
Solubility(ies) Water solubility	:	soluble

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: None reasonably foreseeable.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reac- tions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: To avoid thermal decomposition, do not overheat.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Product: Acute oral toxicity	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
<u>Components:</u> sodium azide: Acute oral toxicity	: LD50 (Rat): 27 mg/kg



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-	corrosion/irritation ata available		
	ous eye damage/eye ata available	irritation	
•	iratory or skin sens ata available	itisation	
Chro	nic toxicity		
	n cell mutagenicity		
	inogenicity ata available		
•	oductive toxicity ata available		
	F - single exposure ata available		
	F - repeated exposu ata available	re	
-	eated dose toxicity ata available		
-	ration toxicity ata available		

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

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
Toxicity to algae	: IC50: 272 mg/l
Toxicity to bacteria	: EC50 (Photobacterium phosphoreum): 38.5 mg/l

Persistence and degradability
No data available
Bioaccumulative potential



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Мо	bility in soil		
No	data available		
Oth	ner adverse effects		
No	data available		
SECTIC	N 13. DISPOSAL CONS	IDERATIONS	
Dis	posal methods		
Wa	ste from residues	: In accordance tions.	with National, Federal, State and Local regula-
Co	ntaminated packaging		ers should be taken to an approved waste han- ecycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

ADG

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

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

Restricted to professional user R-phrase(s)	s. : R22	Harmful if swallowed.
S-phrase(s)	: S60	This material and its container must be disposed of as hazardous waste.



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SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization: KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

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Numbers		123,456.78

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SEC	TION 1	. PRODUCT AND CO	MP	ANY IDENTIFICAT	ION
	Produc	t name	:	Cell fixative	
	Substa	nce name	:	Cell fixative 7042	
	Manufa	acturer or supplier's o	deta	ails	
	Compa	ny	:	Menarini Silicon E	Biosystems, Inc.
	Addres	S	:	3401 Masons Mill Huntingdon Valle USA	
	Telepho	one	:	1 (800) 381-4929	
	Emerge numbe	ency telephone r	:	US : (303)-389-18 International: +1	
		address nsible/issuing person	:	Us-info@siliconbiosystems.com	
	Recom	mended use of the c	hen	nical and restriction	ons on use
	Recom	mended use	:	Assay reagent	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin sensitisation	: Category 1
GHS label elements Hazard pictograms	
Signal word	: Warning
Hazard statements	: H317 May cause an allergic skin reaction.
Precautionary statements	 Prevention: P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves. Response: P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P333 + P313 If skin irritation or rash occurs: Get medical ad- vice/ attention. P363 Wash contaminated clothing before reuse. Disposal: P501 Dispose of contents/ container to an approved waste



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			disposal plant		
Oth	er hazards which do no	t res	sult in classifica	ation	
Non	e known.				
SECTION	N 3. COMPOSITION/INF	ORN	ATION ON ING	REDIENTS	
Sub	stance / Mixture	:	Mixture		
Che	mical nature	:	Liquid		
Haza	ardous components				
	mical name			CAS-No.	Concentration (% w/w)
	UREA			39236-46-9	< 10
sodi	um azide			26628-22-8	< 10
	N 4. FIRST AID MEASUF	_	If breathed in, i Consult a phys	nove person into fresh ician.	air.
In ca	ase of skin contact	:	Wash off with p	ninated clothing and sl blenty of water. ersist, call a physician.	noes immediately.
In ca	ase 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 sw	allowed	:	 If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately. 		
	t important symptoms effects, both acute and yed	:	No information	available.	
Note	es to physician	:	Treat symptom	atically.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local c cumstances and the surrounding environment.	;ir-
Specific hazards during fire- fighting	: No information available.	
Hazardous combustion prod- ucts	: No hazardous combustion products are known	



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Specific extinguishing meth- : N ods		: No information av	vailable.
Special protective equipment for firefighters		: In the event of fir	e, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency 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.
Environmental precautions	:	Should not be released into the environment.
Methods and materials for containment and 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".

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	: No data available
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.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage	 To maintain product quality, do not store in heat or direct sunlight. 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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis	
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			exposure)	concentration	
sodiu	m azide	26628-22-8	Peak limit	0.11 ppm 0.3 mg/m3	AU OEL
				sure standards are e d converted into volu	
			C (Vapour)	0.11 ppm (Hydrazoic acid)	ACGIH
			C	0.29 mg/m3 (Sodium azide)	ACGIH
Engi	neering measures			ent should be based onment Health Safet	
Pers	onal protective equip	ment			
Resp	iratory protection	controlling ex If respiratory ities, the type will depend u hazards, phy sent.	posures. protective equip as well as the c pon the risk ass sical and warnin	always be the primar ment is needed for c corresponding protec essment and air con g properties of subst ctive equipment nor	certain activ- tion factor centrations, tances pre-
Hand	protection				
Re	marks	: Disposable g	loves		
Eye p	protection	: No special pr	ecautions requir	ed.	
Skin	and body protection	: No special pr	recautions requir	ed.	
Prote	ctive measures	the Environm	ental Health and	nent must be selecte d Safety risk assessr and Safety expert if n	nent. Con-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear
Odour	:	odourless
рН	:	7.5
Solubility(ies) Water solubility	:	soluble

SECTION 10. STABILITY AND REACTIVITY



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	Reactiv	vity	:	None reasonably	/ foreseeable.
	Chemi	cal stability	:	Stable under rec	ommended storage conditions.
	Possib tions	ility of hazardous reac-	:	No dangerous re	action known under conditions of normal use.
	Conditi	ons to avoid	:	To avoid therma	l decomposition, do not overheat.
	Incomp	patible materials	:	Strong acids and Reducing agents Oxidizing agents	5
	Hazaro produc	lous decomposition ts	:	None known.	

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
<u>Components:</u> IMIDUREA:	
Acute oral toxicity	: LD50 (Rat): 11,300 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 5.5 mg/l Exposure time: 1 h
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg
sodium azide: Acute oral toxicity	: LD50 (Rat): 27 mg/kg

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:



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	od: Maximisation Test It: May cause sensitisatio	on by skin contact.	
	od: Local Lymph Node A It: May cause sensitisatio		
Chro	nic toxicity		
Germ	cell mutagenicity		
	<u>ponents:</u> JREA:		
Geno	toxicity in vitro	: Test Type: Ame Metabolic activa Result: negative GLP: yes	ation: with and without metabolic activation
			pmosome aberration test in vitro ation: with and without metabolic activation
Geno	toxicity in vivo	: Test Type: Micr Species: Mouse Application Rou Result: negative	e ite: Oral
	cell mutagenicity -	: No information a	available.
Carci	nogenicity		
	oonents:		
Carci	JREA: nogenicity - ssment	: No information a	available.
Repro	oductive toxicity		
Com	ponents:		
	JREA: ogenicity - Assessment	: No information a	available.
STOT	- single exposure		
	ata available		
STOT	- repeated exposure		
	ita available		
Repe	ated dose toxicity		
	ponents:		
Speci	JREA: es: Rat EL: 200 mg/kg		



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	EL: 500 mg/kg cation Route: Oral			
Speci	ies: Rabbit EL: 200 mg/kg cation Route: Dermal			
Aspir	ration toxicity			
No da	ata available			
SECTION	12. ECOLOGICAL INFO	ORMATION		
Ecoto	oxicity			
IMID	oonents: UREA: ity to fish	: Remarks: No d	ata available	
	um azide: ity to fish	: LC50 (Lepomis Exposure time:	macrochirus (Bluegill sunfish)): 0.7 mg/l 96 h	
	ity to daphnia and other tic invertebrates	: EC50 (Daphnia Exposure time:	pulex (Water flea)): 4.2 mg/l 96 h	
Toxic	ity to algae	: IC50: 272 mg/l		
Toxic	ity to bacteria	: EC50 (Photoba	cterium phosphoreum): 38.5 mg/l	
Persi	istence and degradabili	ity		
IMID	ponents: UREA: egradability	: Remarks: No da	ata available	
Bioa	ccumulative potential			
IMID	ponents: UREA: ccumulation	: Remarks: No da	ata available	
Mobi	lity in soil			
IMIDI Distri	ponents: UREA: bution among onmental compartments	: Remarks: No da	ata available	
Othe	r adverse effects			
Com	ponents:			



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Resu	UREA: ults of PBT and vPvB ssment	: No information	available.
Addi	tional ecological mation	: No data availa	ble
SECTION	I 13. DISPOSAL CONS		

Disposal methods Waste from residues	:	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

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

ADG

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

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

 Restricted to professional users.
 R-phrase(s)
 : R22
 Harmful if swallowed.

 S-phrase(s)
 : S60
 This material and its container must be disposed of as hazardous waste.



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Date of last issue: 15.11.2016 Date of first issue: 18.09.2015

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization: KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

Date format	: dd.mm.yyyy
Numbers	123,456.78

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