

Versio 1.7	on Revision Da 9.01.2018		OS Number: 0000010878	Date of last issue: 27.10.2016 Date of first issue: 11.01.2016
1. PR	ODUCT AND COM	PANY IDENI	IFICATION	
F	Product name	:	Capture enhancer	ment reagent
S	Substance name	:	Capture enhancer 7037	ment reagent
N	Manufacturer or su	pplier's deta	ils	
	Company	:	Menarini Silicon B	liosystems, Inc.
ŀ	Address	:	10355 Science Ce 3401 Masons Mill Huntingdon Valley 19006, USA	Rd #100
Г	Felephone	:	1 (800) 381-4929	
	Emergency telepho number	one :	US : (303)-389-18 International: +1	
	E-mail address Responsible/issuing	: person	Us-info@siliconbio	systems.com
F	Recommended use	of the chem	nical and restriction	ons on use
F	Recommended use	:	Assay reagent	

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.

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	>= 0.1 - < 10

4. FIRST AID MEASURES

If inhaled

: If breathed in, move person into fresh air.



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		Consult a physic	cian.
In cas	e of skin contact	Wash off with pl	inated clothing and shoes immediately. enty of water. sist, call a physician.
In cas	e of eye contact	for at least 5 min Remove contac	
lf swa	llowed	: If swallowed, rin scious). Call a physician	se mouth with water (only if the person is con- immediately.
	mportant symptoms ffects, both acute and ed	: No information a	available.
Notes	to physician	: Treat symptoma	atically.

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.	

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".

7. HANDLING AND STORAGE



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		on protection against d explosion	: No data availa	ble
,	Advice	on safe handling	Avoid inhalation	nal decomposition, do not overheat. on, ingestion and contact with skin and eyes. protective equipment as required.
Conditions for safe storage : To maintain product quality, do not store in hear light. Store in original container. Keep containers tightly closed in a dry, cool and ventilated place. Keep away from heat and sources of ignition. Keep locked up. Keep refrigerated.		al container. ers tightly closed in a dry, cool and well- e. Im heat and sources of ignition. p.		
	Recom peratur	mended storage tem- e	: 2-8 °C	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
sodium azide	26628-22-8	PEL (short term)	0.29 mg/m3 (Hydrazoic acid)	SG OEL
		PEL (short term) (Va- pour)	0.11 ppm (Hydrazoic acid)	SG OEL
		C (Vapour)	0.11 ppm (Hydrazoic acid)	ACGIH
		С	0.29 mg/m3 (Sodium azide)	ACGIH
Engineering measures Personal protective equipme	assessment. necessary.		ent should be based on ment Health Safety	
Respiratory protection	: Engineering of 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 primary ment is needed for ce orresponding protect essment and air conc g properties of substa ctive equipment norm	ertain activ- ion factor entrations, ances pre-
Hand protection				
Remarks	: Disposable g	loves		

Components with workplace control parameters



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Eye p	protection	: No special pr	recautions 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.			
Hygiene measures		: Handle in acc practice.	cordance with good industrial hygiene and safety		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: clear
Odour	: No data available

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.

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
Okin a anna ai an linnitati an	

Skin corrosion/irritation

No data available



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Seri	ous eye damage/eye i	rritation		
No c	lata available			
Res	piratory or skin sensit	isation		
No c	lata available			
Geri	m cell mutagenicity			
No c	lata available			
Care	cinogenicity			
No c	lata available			
Rep	roductive toxicity			
No c	lata available			
STO	T - single exposure			
No c	lata available			
STO	T - repeated exposure	9		
No c	lata available			
Rep	eated dose toxicity			
No c	lata available			
Asp	iration toxicity			
No c	lata available			

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

Toxicity to bacteria	: EC50 (Photobacterium phosphoreum): 38.5 mg/l
Persistence and degrada	hility
No data available	~
Bioaccumulative potentia	
No data available	
Mobility in soil	
No data available	
Other adverse effects	
No data available	



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13. DISPC	DSAL CONSIDERATIO	DNS	
Disp	osal methods		
Wast	e from residues	: In accordance tions.	with National, Federal, State and Local regula-
Conta	aminated packaging		ers should be taken to an approved waste han- cycling or disposal.
14. TRAN	SPORT INFORMATIO	N	

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.

15. REGULATORY INFORMATION

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

Restricted to professional users.

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Fire Safety (Petroleum and Flammable Materials) Regulations : Not applicable

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% re-



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sponse; 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

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.

SG / EN

SAFETY DATA SHEET



Versi 1.1	ion	Revision Date: 09.01.2018		OS Number: 0000013033	Date of last issue: 15.11.2016 Date of first issue: 15.11.2016
1. PF	RODUC	T AND COMPANY ID	EN	FIFICATION	
	Substa	nce name	:	Staining Reagent	
	Manufa	acturer or supplier's	deta	ails	
	Compa	iny	:	Menarini Silicon E	Biosystems, Inc.
	Addres	S	:	3401 Masons Mill Huntingdon Valle 19006, USA	
	Teleph	one	:	1(800) 381-4929	
	Emerg numbe	ency telephone er	:	US : (303)-389-18 International: +1	
		address nsible/issuing person	:	Us-info@siliconbio	systems.com
	Recom	mended use of the c	hen	nical and restriction	ons on use
	Recom	mended use	:	Assay reagent	

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.

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	>= 0.1 - < 1

4. FIRST AID MEASURES

If inhaled

: If breathed in, move person into fresh air.

SAFETY DATA SHEET



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		Consult a phys	sician.
In cas	e of skin contact	Wash off with	minated clothing and shoes immediately. plenty of water. ersist, call a physician.
In cas	e of eye contact	for at least 5 m Remove conta	
lf swa	llowed	scious).	inse mouth with water (only if the person is con- n immediately.
	mportant symptoms ffects, both acute and ed	: No information	available.
Notes	to physician	: Treat symptom	natically.

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.

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".



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7. HAND	LING AND STORAGE		
	ce on protection against and explosion	: No data availat	ble
Advi	ce on safe handling	Avoid inhalatior	al decomposition, do not overheat. n, ingestion and contact with skin and eyes. rotective equipment as required.
Con	ditions for safe storage	light. Store in origina Keep container ventilated place	s tightly closed in a dry, cool and well- e. n heat and sources of ignition. o.
	ommended storage tem- ture	: 2 - 8 °C	

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	PEL (short term)	0.29 mg/m3 (Hydrazoic acid)	SG OEL
		PEL (short term) (Va- pour)	0.11 ppm (Hydrazoic acid)	SG OEL
		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- quired.	



ersion I	Revision Date: 09.01.2018	SDS Number: 100000013033	Date of last issue: 15.11.2016 Date of first issue: 15.11.2016
Eye p	protection	: No special p	precautions required.
Skin a	and body protection	: No special p	precautions required.
Protective measures : The type of protective equipment must be selected base the Environmental Health and Safety risk assessment. sult a Environmental Health and Safety expert if necess			
Hygie	ene measures	: Handle in a practice.	ccordance with good industrial hygiene and safety
PHYSIC	CAL AND CHEMICAL PI	ROPERTIES	
Appe	arance	: liquid	
Colou	ır	: purple	
Odou	r	: odourless	
рН		: 7.5	
	pility(ies) ater solubility	: soluble	
. STABI	ILITY AND REACTIVITY	,	
Reac	tivity	: None reaso	onably foreseeable.
Cherr	nical stability	: Stable und	er recommended storage conditions.
Possi tions	bility of hazardous reac-	: No danger	ous reaction known under conditions of normal us
Cond	itions to avoid	: To avoid th	nermal decomposition, do not overheat.
Incom	npatible materials	: Strong acio Reducing a Oxidizing a	
Haza produ	rdous decomposition	: None know	<i>i</i> n.

FO U,

Acute toxicity

Product:

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



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		Acute toxicity e Method: Calcul	stimate: > 2,000 mg/kg ation method
	ponents:		
	um azide: e oral toxicity	: LD50 (Rat): 27	mg/kg
Skin	corrosion/irritation		
No da	ata available		
Serio	ous eye damage/eye i	rritation	
No da	ata available		
Resp	piratory or skin sensit	isation	
No da	ata available		
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)	
No da	ata available		
Repe	eated dose toxicity		
No da	ata available		
Aspi	ration toxicity		
No da	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



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Pers	istence and degrada	bility	
No da	ata available		
Bioa	ccumulative potentia	al	
No da	ata available		
Mobi	ility in soil		
No da	ata available		
Othe	r adverse effects		
No da	ata available		
3. DISPO	DSAL CONSIDERATI	ONS	

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.

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.

15. REGULATORY INFORMATION

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

Restricted to professional users.

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations



Date of last issue: 15.11.2016

Date of first issue: 15.11.2016

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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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Version 1.1	Revision Date: 09.01.2018		DS Number: 0000010877	Date of last issue: 15.11.2016 Date of first issue: 15.11.2016
1. PRODUC	CT AND COMPANY ID	EN	TIFICATION	
Produc	ct name	:	Nucleic acid dye	
Substa	ance name	:	Nucleic acid dye 7041	
Manuf	acturer or supplier's	deta	ils	
Compa		:	Menarini Silicon E	Biosystems, Inc.
Addres	SS	: 3401 Masons Mill Rd #100 Huntingdon Valley, PA 19006, USA		
Teleph	none	:	1 (800) 381-4929	
Emerg numbe	jency telephone er	:	US : (303)-389-18 International: +1	
	address nsible/issuing person	:	Us-info@siliconb	iosystems.com
Recon	nmended use of the c	hen	nical and restriction	ons on use
Recon	nmended use	:	Assay reagent	

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Chemical nature : Liquid

Hazardous components

No hazardous ingredients

4. FIRST AID MEASURES

If inhaled

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



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In cas	e of skin contact	Wash off imme If symptoms p	minated clothing and shoes immediately. ediately with plenty of water. ersist, call a physician. nated clothing before re-use.
In cas	e of eye contact	for at least 5 m Remove conta	
If swa	llowed	scious).	inse mouth with water (only if the person is con- in immediately.
	mportant symptoms fects, both acute and ed	: No information	available.
Notes	to physician	: Treat sympton	natically.

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.

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 personal 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".

7. HANDLING AND STORAGE



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		on protection against d explosion	: No data availab	le
	Advice	on safe handling	Avoid inhalatior	al decomposition, do not overheat. , ingestion and contact with skin and eyes. otective equipment as required.
	Conditi	ions 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. 	
	Recom peratur	mended storage tem- re	: 2 - 8 °C	

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 o assessment. Consult a Environment Health Safety ex necessary.	
Personal protective equipme		
Respiratory protection	Engineering controls should always be the primary m controlling exposures. If respiratory protective equipment is needed for certa ities, the type as well as the corresponding protection will depend upon the risk assessment and air concer hazards, physical and warning properties of substance sent. No personal respiratory protective equipment normal quired.	ain activ- factor htrations, ces pre-
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 b the Environmental Health and Safety risk assessmer sult a Environmental Health and Safety expert if nece	nt. Con-
Hygiene measures	Handle in accordance with good industrial hygiene an practice.	nd safety



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). PHYSIC	CAL AND CHEMICAL PI	ROPERTIES			
Appe	arance	: liquid			
Colou	ır	: clear, light yel	low		
Odou	ır	: odourless			
pН		: 7.5			
Solub Wa	pility(ies) ater solubility	: soluble			
IO. STAB	ILITY AND REACTIVITY				
Reac	tivity	: None reasona	ably foreseeable.		
Cherr	nical stability	: Stable under	Stable under recommended storage conditions.		
Possi tions	ibility of hazardous reac-	: No dangerous	: No dangerous reaction known under conditions of normal use.		
Cond	itions to avoid	: To avoid thermal decomposition, do not overheat.			
Incon	npatible materials	: None known.			
Haza produ	rdous decomposition	: None known.			

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
Germ cell mutagenicity
No data available
Carcinogenicity
No data available
Reproductive toxicity
No data available



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STO	Γ - single exposure		
No da	ata available		
STO	F - repeated exposure	9	
No da	ata available		
Repe	ated dose toxicity		
No da	ata available		
Aspi	ration toxicity		
No da	ata available		
12. ECOL		ON	

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

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.

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



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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

15. REGULATORY INFORMATION

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

Restricted to professional users.

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Fire Safety (Petroleum and Flammable Materials) Regulations : Not applicable

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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1.1	09.01.2018	100000010877	Date of first issue: 15.11.2016
Date f	ormat	: dd.mm.yyyy	
Numb	ers	123,456.78	

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Revision Date: 09.01.2018			Date of last issue: 27.10.2016 Date of first issue: 11.01.2016
DUCT AND COMPANY IE	DEN	TIFICATION	
oduct name	:	Permeabilization	reagent
bstance name	:	Permeabilization 7038	reagent
nufacturer or supplier's	deta	ails	
mpany	:	Menarini Silicon E	Biosystems, Inc.
dress	:	3401 Masons Mil Huntingdon Valle 19006, USA	
lephone	:	1 (800) 381-4929	
	:	US : (303)-389-1 International: +1	
	:	Us-info@silicont	piosystems.com
commended use of the o	chen	nical and restriction	ons on use
commended use	:	Assay reagent	
	09.01.2018 DUCT AND COMPANY IE boduct name bstance name unufacturer or supplier's mpany dress lephone hergency telephone mber mail address sponsible/issuing person	09.01.2018 10 DUCT AND COMPANY IDEN oduct name : bstance name : inufacturer or supplier's deta mpany : dress : lephone : mail address : mail address : sponsible/issuing person : commended use of the chem :	09.01.2018 100000010887 DUCT AND COMPANY IDENTIFICATION oduct name : Permeabilization bstance name : Permeabilization runfacturer or supplier's details mpany : Menarini Silicon I dress : 3401 Masons Mil Huntingdon Valle 19006, USA lephone : 1 (800) 381-4929 mail address : Us-info@siliconl sponsible/issuing person : Us-info@siliconl

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.

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	>= 0.1 - < 10

4. FIRST AID MEASURES

: If breathed in, move person into fresh air.



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		Consult a phys	ician.		
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 con- scious). Call a physician immediately. 			
	mportant symptoms ffects, both acute and ed	: No information available.			
Notes	Notes to physician : Treat symptomatically.				

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.	

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".

7. HANDLING AND STORAGE



Versic 1.6	on	Revision Date: 09.01.2018	SDS Number: 100000010887	Date of last issue: 27.10.2016 Date of first issue: 11.01.2016
		on protection against explosion	: No data availab	le
A	Advice	on safe handling	Avoid inhalatior	al decomposition, do not overheat. n, ingestion and contact with skin and eyes. rotective equipment as required.
Conditions for safe storage		light. Store in origina Keep container ventilated place	s tightly closed in a dry, cool and well- e. n heat and sources of ignition.	
	Recom peratur	mended storage tem- e	: 2 - 8 °C	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type	Control parame-	Basis
Components	043-110.	(Form of exposure)	ters / Permissible concentration	Dasis
sodium azide	26628-22-8	PEL (short term)	0.29 mg/m3 (Hydrazoic acid)	SG OEL
		PEL (short term) (Va- pour)	0.11 ppm (Hydrazoic acid)	SG OEL
		C (Vapour)	0.11 ppm (Hydrazoic acid)	ACGIH
		С	0.29 mg/m3 (Sodium azide)	ACGIH
Engineering measures Personal protective equipm	assessmer necessary.		nent should be based onment Health Safety	
Respiratory protection	controlling If respirator ities, the typ will depend hazards, ph sent.	No personal respiratory protective equipment normally re-		
Hand protection				
Remarks	: Disposable	gloves		

Components with workplace control parameters



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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.				
Hygiene measures		: Handle in acc practice.	cordance with good industrial hygiene and safety			

9. PHYSICAL AND CHEMICAL PROPERTIES

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

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.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

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

Components:



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	i um azide: e oral toxicity	: LD50 (Rat): 2	7 mg/kg		
Skin	corrosion/irritation				
No d	lata available				
	ous eye damage/eye i lata available	rritation			
	piratory or skin sensi lata available	tisation			
	Germ cell mutagenicity No data available				
	cinogenicity				
	lata available				
Rep	roductive toxicity				
No d	lata available				
STO	T - single exposure				
No d	lata available				
STO	T - repeated exposure	9			
No d	lata available				
•	eated dose toxicity				
No d	lata available				
•	iration toxicity				
No c	lata available				

12. ECOLOGICAL INFORMATION

Components: 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



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Bioad	cumulative potential					
No da	ta available					
Mobil	Mobility in soil					
No da	ita available					
Other	adverse effects					
No da	ita available					
13. DISPOSAL CONSIDERATION Disposal methods Waste from residues Contaminated packaging		 In accorda tions. Empty cor 	nce with National, Federal, State and Local regula- ntainers should be taken to an approved waste han- or recycling or disposal.			

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.

15. REGULATORY INFORMATION

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

Restricted to professional users.

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations



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1.6	09.01.2018	10000010887

Date of last issue: 27.10.2016 Date of first issue: 11.01.2016

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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Versio 1.6	n Revision Date: 09.01.2018		Number: 00010880	Date of last issue: 15.11.2016 Date of first issue: 11.01.2016			
1. PRC	1. PRODUCT AND COMPANY IDENTIFICATION						
Р	roduct name	: A	nti-EpCAM fe	errofluid			
S	Substance name		Anti-EpCAM ferrofluid 7036				
Μ	lanufacturer or supplie	er's details					
С	ompany	: M	enarini Silico	n Biosystems, Inc.			
A	ddress	Ĥ	401 Masons I untingdon Va 9006, USA				
Т	elephone	: 1	(800) 381-49	29			
	mergency telephone umber		S : (303)-389 Iternational:	-1805 +1 (303)-389-1805			
	-mail address esponsible/issuing pers	[:] Us on	-info@silicon	biosystems.com			
R	ecommended use of t	he chemic	al and restri	ctions on use			

Recommended use : Assay reagent

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.

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	< 0.1
id		

4. FIRST AID MEASURES



Version 1.6	Revision Date: 09.01.2018	SDS Number: 100000010880	Date of last issue: 15.11.2016 Date of first issue: 11.01.2016	
If inhaled		: If breathed in, m Consult a physic	nove person into fresh air. cian.	
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		for at least 5 mir Remove contact		
lf sv	wallowed	 If swallowed, rinse mouth with water (only if the person is scious). Call a physician immediately. 		
and	st important symptoms I effects, both acute and ayed	: No information available.		
Not	es to physician	: Treat symptoma	atically.	

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.

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 1.6	Revision Date: 09.01.2018	SDS Number: 100000010880	Date of last issue: 15.11.2016 Date of first issue: 11.01.2016		
7. HANDL	ING 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.			
Conditions for safe storage		 To maintain product quality, do not store in heat or direct sur 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. 			
Reco perat	mmended storage tem- ure	: 2 - 8 °C			

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, inces pre-	
Hand protection					
Remarks	: Disposable gloves				



Version 1.6	Revision Date: 09.01.2018	SDS Number: 100000010880	Date of last issue: 15.11.2016 Date of first issue: 11.01.2016			
Eye p	protection	: No special precautions required.				
Skin and body protection		: No special precautions required.				
Protective measures		: The type of protective equipment must be selected based or the Environmental Health and Safety risk assessment. Con- sult a Environmental Health and Safety expert if necessary.				
Hygie	ene measures	: Handle in acc practice.	cordance with good industrial hygiene and safety			

9. PHYSICAL AND CHEMICAL PROPERTIES

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

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.

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



Version 1.6	Revision Date: 09.01.2018	SDS Number: 100000010880	Date of last issue: 15.11.2016 Date of first issue: 11.01.2016
Gerr	n cell mutagenicity		
No d	lata available		
Card	cinogenicity		
No d	lata available		
Rep	roductive toxicity		
No d	lata available		
STO	T - single exposure		
No d	lata available		
STO	T - repeated exposure		
No d	lata available		
Rep	eated dose toxicity		
No d	lata available		
Asp	iration toxicity		
No d	lata available		

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

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.

14. TRANSPORT INFORMATION

International Regulation	S
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UNRTDG



Version 1.6	Revision Date: 09.01.2018	SDS Number: 100000010880	Date of last issue: 15.11.2016 Date of first issue: 11.01.2016
Not reg	gulated as a dangerous	good	
IATA-E Not reg	DGR gulated as a dangerous	good	
IMDG- Not reg	Code gulated as a dangerous	good	
•	plicable for product as		OL 73/78 and the IBC Code

15. REGULATORY INFORMATION

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

Restricted to professional users.

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Fire Safety (Petroleum and Flammable Materials) Regulations : Not applicable

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;



Version	Revision Date:	SDS Number:	Dat
1.6	09.01.2018	10000010880	Dat

Date of last issue: 15.11.2016 Date of first issue: 11.01.2016

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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SG / EN

SAFETY DATA SHEET Dilution buffer



Version 1.6	Revision Date: 09.01.2018		0S Number: 0000010879	Date of last issue: 27.10.2016 Date of first issue: 11.01.2016
1. PRODU	CT AND COMPANY ID	ENT	IFICATION	
Produ	ct name	:	Dilution buffer	
Subst	ance name	:	Dilution buffer 7039	
Manu	facturer or supplier's o	deta	ils	
Comp	any	:	Menarini Silicon B	liosystems, Inc.
Addre	SS	:	3401 Masons Mill Huntingdon Valley 19006, USA	
Telep	none	:	1 (800) 381-4929	
Emer numb	gency telephone er	:	US : (303)-389-18 International: +1	
	l address onsible/issuing person	:	Us-info@siliconbi	osystems.com
Reco	nmended use of the c	hem	nical and restriction	ons on use
Recor	nmended use	:	Assay reagent	

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.

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	>= 0.1 - < 10

4. FIRST AID MEASURES

lf	inha	led

: If breathed in, move person into fresh air.



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		Consult a phy	sician.	
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 cas	e of eye contact	tact : Rinse immediately with plenty of water, also under the eyel for at least 5 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.		
lf swal	llowed	scious).	rinse mouth with water (only if the person is con- an immediately.	
	mportant symptoms fects, both acute and ed	: No information	n available.	
Notes	to physician	: Treat symptor	natically.	

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.	

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".

7. HANDLING AND STORAGE



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		on protection against explosion	: No data availab	le
	Advice	on safe handling	Avoid inhalatior	al decomposition, do not overheat. a, ingestion and contact with skin and eyes. rotective equipment as required.
	Conditi	ons for safe storage	light. Store in original Keep container ventilated place	s tightly closed in a dry, cool and well- n heat and sources of ignition.
	Recom peratur	mended storage tem-	: 2-8 °C	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
sodium azide	26628-22-8	PEL (short term)	0.29 mg/m3 (Hydrazoic acid)	SG OEL
		PEL (short term) (Va- pour)	0.11 ppm (Hydrazoic acid)	SG OEL
		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	controlling ex If respiratory ities, the type will depend u hazards, phy sent.	No personal respiratory protective equipment normally re-		
Hand protection				
Remarks	: Disposable ç	gloves		

Components with workplace control parameters



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Eye ç	protection	: No special pr	ecautions 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.			
Hygie	ene measures	: Handle in acc practice.	cordance with good industrial hygiene and safety		

9. PHYSICAL AND CHEMICAL PROPERTIES

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

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.

11. TOXICOLOGICAL INFORMATION

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



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Acu	te oral toxicity	: LD50 (Rat): 27	′ mg/kg
-	a corrosion/irritation		
	ous eye damage/eye i data available	rritation	
	piratory or skin sensi t data available	lisation	
Ger	m cell mutagenicity		
No d	data available		
Car	cinogenicity		
No d	data available		
Rep	roductive toxicity		
No d	data available		
STC)T - single exposure		
No d	data available		
STC	T - repeated exposure	9	
No d	lata available		
Rep	eated dose toxicity		
No d	data available		
Asp	iration toxicity		
No d	data available		

12. ECOLOGICAL INFORMATION

<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

Persistence and degradability
No data available
Bioaccumulative potential
No data available



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Mob	oility in soil		
No c	lata available		
Othe	er adverse effects		
No c	lata available		
	OSAL CONSIDERATI	ONS	
Was	te from residues	: In accordanc tions.	e with National, Federal, State and Local regula-
Con	taminated packaging		iners should be taken to an approved waste han- recycling or disposal.

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.

15. REGULATORY INFORMATION

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

Restricted to professional users.

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations

16. OTHER INFORMATION

Full text of other abbreviations



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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.

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Version 1.8	Revision Date: 09.01.2018		DS Number: 00000010702	Date of last issue: 15.11.2016 Date of first issue: 11.01.2016
1. PROD	UCT AND COMPANY II	DEN	TIFICATION	
Prod	luct name	:	Cell fixative	
Subs	stance name	:	Cell fixative 7042	
Man	ufacturer or supplier's	deta	ails	
Com	ipany	:	Menarini Silicon	Biosystems, Inc.
Addı	ress	:	3401 Masons Mil Huntingdon Valle 19006, USA	
Tele	phone	:	(800) 381-4929	
Eme num	ergency telephone Iber	:	US : (303)-389-1 International: +1	805 1 (303)-389-1805
	ail address consible/issuing person	:	Us-info@siliconb	iosystems.com
Rec	ommended use of the o	chen	nical and restricti	ons on use
Reco	ommended use	:	Assay reagent	

2. HAZARDS IDENTIFICATION

GHS Classification Skin sensitisation	: Category 1
GHS label elements Hazard pictograms	
Signal word Hazard statements	: Warning : 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 water. P333 + P313 If skin irritation or rash occurs: Get medical ad- vice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse.



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		Disposal: P501 Dispos disposal plar		ner to an approved waste	
••	r hazards which do no known.	t result in classifi	cation		
B. COMPO	OSITION/INFORMATIO	N ON INGREDIEN	TS		
Subs	tance / Mixture	: Mixture			
Chem	nical nature	: Liquid			
Haza	rdous components				
Chem	nical name		CAS-No.	Concentration (% w/w)	
	UREA		39236-46-9	>= 1 - < 10	
sodiu	m azide		26628-22-8	>= 0.1 - < 1	
4. FIRST /	AID MEASURES	: If breathed in Consult a phy	, move person into fre	esh air.	
In cas	se of skin contact	 Take off contaminated clothing and shoes immediately. Wash off with plenty of water. If symptoms persist, call a physician. 			
In cas	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, rinse mouth with water (only if the person is con- scious). Call a physician immediately. 			
	important symptoms effects, both acute and red	: No information available.			
Notes	s to physician	: Treat sympto	matically.		
5. FIREFI	GHTING MEASURES				
Suita	ble extinguishing media		hing measures that a	are appropriate to local cir-	

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-	: No hazardous combustion products are known



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u	icts		
	Specific extinguishing meth- ds	: No information av	vailable.
	Special protective equipment or firefighters	: In the event of fir	e, wear self-contained breathing apparatus.

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".

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.
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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
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	sodium	sodium azide		26628-22-8	PEL (short term)	0.29 mg/m3 (Hydrazoic acid)	SG OEL		
					PEL (short term) (Va- pour)	0.11 ppm (Hydrazoic acid)	SG OEL		
-					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.					
	Persor	Personal protective equipment							
Respiratory protection		atory protection	:	controlling ex If respiratory p ities, the type will depend up hazards, physisent.	posures. protective equipi as well as the c pon the risk asso sical and warning	Ilways be the primary ment is needed for ce orresponding protect essment and air conc g properties of substa ctive equipment norm	ertain activ- ion factor entrations, ances pre-		
	Hand p	protection							
	Rem	narks	:	: Disposable gloves					
	Eye pro	otection	:	: No special precautions required.					
	Skin and body protection		:	: No special precautions required.					
			:	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.					
			Handle in accordance with good industrial hygiene and safety practice.						

9. PHYSICAL AND CHEMICAL PROPERTIES

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



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10. S ⁻	TABILITY AND REACTIVI	ТҮ					
F	Reactivity	: None reason	ably foreseeable.				
C	Chemical stability	: Stable under	: Stable under recommended storage conditions.				
	Possibility of hazardous rea ions	c- : No dangerou	: No dangerous reaction known under conditions of normal use.				
C	Conditions to avoid	: To avoid ther	: To avoid thermal decomposition, do not overheat.				
li	ncompatible materials	: Strong acids Reducing age Oxidizing age					
	Hazardous decomposition products	: None known.					

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:	

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

Components:

IMIDUREA: Result: No eye irritation



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Resp	piratory or skin sensitis	ation			
IMID Meth	p onents: UREA: lod: Maximisation Test llt: May cause sensitisatio	on by skin contact.			
	Method: Local Lymph Node Assay (LLNA) in mice Result: May cause sensitisation by skin contact.				
Gerr	n cell mutagenicity				
	ponents:				
	UREA: ptoxicity in vitro	: Test Type: Ame Metabolic active Result: negative GLP: yes	ation: with and without metabolic activation		
			omosome aberration test in vitro ation: with and without metabolic activation e		
Geno	otoxicity in vivo	: Test Type: Micr Species: Mouse Application Rou Result: negative	e ute: Oral		
	n cell mutagenicity -	: No information	available.		
Carc	inogenicity				
IMID Carc	ponents: UREA: inogenicity - essment	: No information	available.		
Repi	roductive toxicity				
IMID	p onents: UREA: togenicity - Assessment	: No information	available.		
	T - single exposure ata available				
STO	T - repeated exposure				
	ata available				
-	eated dose toxicity				
	ponents: UREA:				
		6/9			



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NOAE LOAE	es: Rat EL: 200 mg/kg EL: 500 mg/kg cation Route: Oral		
NOAE	es: Rabbit EL: 200 mg/kg cation Route: Dermal		
-	ation toxicity ta available		
ECOLO	OGICAL INFORMATIO	N	
Ecoto	oxicity		
IMIDU	onents: JREA: ity to fish	: Remarks: No	data available
	i m azide: ity to fish	: LC50 (Lepom Exposure time	is macrochirus (Bluegill sunfish)): 0.7 mg/ e: 96 h
	ty to daphnia and other ic invertebrates	: EC50 (Daphn Exposure time	ia pulex (Water flea)): 4.2 mg/l e: 96 h
Toxici	ty to algae	: IC50: 272 mg	1
Toxici	ity to bacteria	: EC50 (Photok	pacterium phosphoreum): 38.5 mg/l
Persis	stence and degradabil	ity	
IMIDU	oonents: JREA: gradability	: Remarks: No	data available
Bioac	cumulative potential		
IMIDU	oonents: JREA: cumulation	: Remarks: No	data available
Mobil	ity in soil		
IMIDU Distrib	Donents: JREA: Dution among Donmental compartments	: Remarks: No	data available



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-	her adverse effects mponents:			
IMIDUREA: Results of PBT and vPvB assessment Additional ecological information		No information available.No data available		
13. DIS	POSAL CONSIDERATIO	NS		
Dis	sposal methods			
Wa	aste from residues	: In accordance tions.	with National, Federal, State and Local regula-	

dling site for recycling or disposal.

: Empty containers should be taken to an approved waste han-

14. TRANSPORT INFORMATION

Contaminated packaging

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.

15. REGULATORY INFORMATION

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

Restricted to professional users.

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations



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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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