

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 01/01/2020 Version: 2.0

	ance/mixture and of the company/undertaking
1.1. Product identifier	Substance
TIOUUCLIOITI	Substance SenSATIVAx® - DNA BINDING BUFFER
	nce or mixture and uses advised against
	Laboratory use/Manufacturing component/Research
1.3. Details of the supplier of the safety da	ta sheet
Medicinal Genomics Corp. 100 Cummings Center, Suite 406L Beverly, MA 01915 - USA T 617-892-7187 www.medicinalgenomics.com	
1.4. Emergency telephone number	
Emergency number :	617-892-7187
SECTION 2: Hazards identification	
2.1. Classification of the substance or mix	ture
Classification (GHS-US) Not classified	
2.2. Label elements	
GHS-US labeling	
No labeling applicable	
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS-US)	
No data available	
SECTION 3: Composition/information	on ingredients
3.1. Substance	
Trade name :	SenSATIVAx® DNA BINDING BUFFER
Full text of H-phrases: see section 16	
3.2. Mixture	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general :	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation :	Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact :	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact :	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion :	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects	, both acute and delayed
Symptoms/injuries :	Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any immediate medical a	ttention and special treatment needed
No additional information available	

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according to Federal Register / Vol. //, No. 58 / Monday	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	- Faam Dry navydar Carbon diavida Water array Sand
suitable extinguishing media Unsuitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand. : Do not use a heavy water stream.
5.2. Special hazards arising from the su	ibstance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	 Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release mea	
6.1. Personal precautions, protective ed	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notif	y authorities if liquid enters sewers or public waters.
6.3. Methods and material for containm	ent and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect
	spillage. Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and persona	protection.
SECTION 7: Handling and storage	
SECTION 7: Handling and storage 7.1. Precautions for safe handling	
	: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
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Odor	:	characteristic.
Odor threshold	:	No data available
рН	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Self ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	No data available
Log Pow	:	No data available
Log Kow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Explosive limits	:	No data available

9.2. **Other information**

No additional information available

SECT	ION 10: Stability and reactivity	
10.1.	Reactivity	
No add	tional information available	
10.2.	Chemical stability	
Not est	ablished.	
10.3.	Possibility of hazardous reactions	
Not est	ablished.	
10.4.	Conditions to avoid	
Direct s	unlight. Extremely high or low temperatur	res.
10.5.	Incompatible materials	
strong a	acids. Strong bases.	
10.6.	Hazardous decomposition products	
fume. C	arbon monoxide. Carbon dioxide.	
SECT	ION 11: Toxicological information	ion
11.1.	Information on toxicological effects	
Acute to	oxicity	: Not classified

, louio loniolly	
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified

cording to Federal Register / Vol. 77, No. 58 / Monda Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
SECTION 12: Ecological information	n
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
SenSATIVAx® DNA BINDING BUFFER	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
SenSATIVAx® DNA BINDING BUFFER	Netestellest
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
In accordance with DOT	
No dangerous good in sense of transport regula	ations
Additional information	
Other information	: No supplementary information available.
400	
ADR Transport document description	: UN N/A
Transport by sea No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory informatio	n
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA	
No additional information available	
No additional information available	
No additional information available EU-Regulations	

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

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Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information

: None.

SDS US (GHS HazCom 2012)

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.



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SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier Product form : Substance
Product form : Substance Trade name : SenSATIVAx® - ELUTION BUFFER
1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Laboratory use/Manufacturing component/Research
1.3. Details of the supplier of the safety data sheet Medicinal Genomics Corp.
100 Cummings Center, Suite 406L Beverly, MA 01915 - USA T 617-892-7187 www.medicinalgenomics.com
1.4. Emergency telephone number Emergency number : 617-892-7187
Emergency number : 617-892-7187
SECTION 2: Hazards identification
2.1. Classification of the substance or mixture
Classification (GHS-US)
Not classified
2.2. Label elements
GHS-US labeling
No labeling applicable
2.3. Other hazards
No additional information available 2.4. Unknown acute toxicity (GHS-US)
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SECTION 3: Composition/information on ingredients
3.1. Substance Trade name : SenSATIVAx® ELUTION BUFFER
Trade name : SenSATIVAx® ELUTION BUFFER
Full text of H-phrases: see section 16
3.2. Mixture
Not applicable
SECTION 4: First aid measures
4.1. Description of first aid measures
First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any immediate medical attention and special treatment needed

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SECTION 5: Firefighting measures	
5.1. Extinguishing media	· Foam Dry nowder, Carbon diavida, Water aprov, Sand
suitable extinguishing media Unsuitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
<u> </u>	: Do not use a heavy water stream.
5.2. Special hazards arising from the sub	Distance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	 Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release meas	
6.1. Personal precautions, protective equ	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
	authorities if liquid enters sewers or public waters.
6.3. Methods and material for containme	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect
<u> </u>	spillage. Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal	protection.
SECTION 7: Handling and storage	
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7.1. Precautions for safe handling Precautions for safe handling 7.2. Conditions for safe storage, including Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/personal state 8.1. Control parameters No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection Respiratory protection Other information SECTION 9: Physical and chemical p 9.1. Information on basic physical and chemical p	 when leaving work. Provide good ventilation in process area to prevent formation of vapor. g any incompatibilities Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container closed when not in use. Strong bases. strong acids. Sources of ignition. Direct sunlight. onal protection Avoid all unnecessary exposure. Wear protective gloves. Chemical goggles or safety glasses. Wear approved mask. When using, do not eat, drink or smoke. properties hemical properties Liquid

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5	
Odor	: characteristic.
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. **Other information**

No additional information available

SECT	ION 10: Stability and reactivity	
10.1.	Reactivity	
No add	litional information available	
10.2.	Chemical stability	
Not est	ablished.	
10.3.	Possibility of hazardous reactions	
Not est	ablished.	
10.4.	Conditions to avoid	
Direct s	sunlight. Extremely high or low temperatures	5.
10.5.	Incompatible materials	
strong	acids. Strong bases.	
10.6.	Hazardous decomposition products	
fume. (Carbon monoxide. Carbon dioxide.	
SECT	ION 11: Toxicological informatio	n
11.1.	Information on toxicological effects	
Acute t	oxicity :	Not classified

Acute toxicity	. Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified

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Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
SECTION 12: Ecological informat	ion
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
SenSATIVAx® ELUTION BUFFER	
SenSATIVAx® ELUTION BUFFER Persistence and degradability	Not established.
Persistence and degradability	Not established.
Persistence and degradability	Not established.

12.4.Mobility in soilNo additional information available

12.5. Other adverse effects

Other information

: Avoid release to the environment.

SECTION 13: Disposal considera	tions
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information In accordance with DOT

 No dangerous good in sense of transport regulations

 Additional information

 Other information

 : No supplementary information available.

ADR

Transport document description

Transport by sea

No additional information available

Air transport

No additional information available

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

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

01/01/2020

: UN N/A

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Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information

: None.

SDS US (GHS HazCom 2012)

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.



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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 12/28/2017 Version: 1.0

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking
1.1. Product identifier	
	: SenSATIVAx® Solution A
1.2. Relevant identified uses of the substa	ance or mixture and uses advised against
Use of the substance/mixture	: Laboratory Use/Manufacturing component/Research
1.3. Details of the supplier of the safety da	ata sheet
Medicinal Genomics 100 Cummings Center Beverly, MA 01915 - USA P: 866.574.3582 www.medicinalgenomics.com	
1.4. Emergency telephone number	
Emergency number	: 866-574-3582
SECTION 2: Hazards identification	
2.1. Classification of the substance or mix	xture
Classification (GHS-US)	
Not classified	
2.2. Label elements	
GHS-US labeling	
No labeling applicable	
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS-US)	
No data available	
SECTION 3: Composition/information	on ingredients
3.1. Substance	
Not applicable	
Full text of H-phrases: see section 16	
3.2. Mixture	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects	
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
	attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	-
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any
	chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release m	neasures
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
•	Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contai	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect
	spillage. Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and perso	onal protection.
SECTION 7: Handling and storag	e
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container closed when not in use.
Incompatible products	: Strong bases. strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/p	ersonal protection
8.1. Control parameters	
No additional information available	
No additional information available 8.2. Exposure controls	
No additional information available 8.2. Exposure controls Personal protective equipment	: Avoid all unnecessary exposure.
No additional information available 8.2. Exposure controls Personal protective equipment Hand protection	: Wear protective gloves.
No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection	Wear protective gloves.Chemical goggles or safety glasses.
No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection Respiratory protection	 Wear protective gloves. Chemical goggles or safety glasses. Wear approved mask.
No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection Respiratory protection Other information	 Wear protective gloves. Chemical goggles or safety glasses. Wear approved mask. When using, do not eat, drink or smoke.
No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection Respiratory protection Other information SECTION 9: Physical and chemic	 Wear protective gloves. Chemical goggles or safety glasses. Wear approved mask. When using, do not eat, drink or smoke.
No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection Respiratory protection Other information SECTION 9: Physical and chemic 9.1. Information on basic physical and	 Wear protective gloves. Chemical goggles or safety glasses. Wear approved mask. When using, do not eat, drink or smoke.
No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection Respiratory protection Other information SECTION 9: Physical and chemic 9.1. Information on basic physical an Physical state	 Wear protective gloves. Chemical goggles or safety glasses. Wear approved mask. When using, do not eat, drink or smoke. cal properties Ind chemical properties Liquid
No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection Respiratory protection Other information SECTION 9: Physical and chemic 9.1. Information on basic physical a Physical state Color	 Wear protective gloves. Chemical goggles or safety glasses. Wear approved mask. When using, do not eat, drink or smoke. Cal properties I. Liquid Colorless.
No additional information available 8.2. Exposure controls Personal protective equipment Hand protection Eye protection Respiratory protection Other information SECTION 9: Physical and chemic	 Wear protective gloves. Chemical goggles or safety glasses. Wear approved mask. When using, do not eat, drink or smoke. cal properties Ind chemical properties Liquid

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Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

Other information 9.2.

No additional information available

SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Not established.	
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low temperature	es.
10.5. Incompatible materials	
strong acids. Strong bases.	
10.6. Hazardous decomposition products	
fume. Carbon monoxide. Carbon dioxide.	
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

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symptoms SECTION 12: Ecological information 12.1. Toxicity No additional information available 12.2. Persistence and degradability Solution A Persistence and degradability Not established. 12.3. Bioaccumulative potential Solution A Bioaccumulative potential Not established. 12.4. Mobility in soil No additional information available 12.5. Other adverse effects Other information : Avoid release to the SECTION 13: Disposal considerations 13.1. Waste treatment methods	anner in accordance with local/national regulations.
12.1. Toxicity No additional information available 12.2. Persistence and degradability Solution A Persistence and degradability Not established. 12.3. Bioaccumulative potential Solution A Bioaccumulative potential Not established. 12.4. Mobility in soil No additional information available 12.5. Other adverse effects Other information Sectrion 13: Disposal considerations 13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials Sectrion 14: Transport information In accordance with DOT No dangerous good in sense of transport regulations Additional information Other information Yransport document description MAR Transport document description MAR Transport document description MA Hazard identification number (Kemler No.) MA Hazard identification number (Kemler No.) MA Hazard identification available	anner in accordance with local/national regulations.
No additional information available 12.2. Persistence and degradability Solution A Persistence and degradability Not established. 12.3. Bioaccumulative potential Solution A	anner in accordance with local/national regulations.
12.2. Persistence and degradability Solution A Persistence and degradability Not established. 12.3. Bioaccumulative potential Solution A Bioaccumulative potential Not established. 12.4. Mobility in soil No additional information available 12.5. Other adverse effects Other information : Avoid release to the SECTION 13: Disposal considerations 13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe m Ecology - waste materials : Avoid release to the SECTION 14: Transport information : Avoid release to the SECTION 14: Transport information : Dispose in a safe m Cology - waste materials : Avoid release to the SECTION 14: Transport information : No supplementary i In accordance with DOT No dangerous good in sense of transport regulations Additional information : No supplementary i ADR : N/A Transport document description : UN N/A Packing group (ADR) : N/A Hazard identification number (Kemler No.) : N/A Classification code	anner in accordance with local/national regulations.
Solution A Persistence and degradability Not established. 12.3. Bioaccumulative potential Solution A Not established. Bioaccumulative potential Not established. 12.4. Mobility in soil No additional information available Not established. 12.5. Other adverse effects Other information : Avoid release to the SECTION 13: Disposal considerations : 13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe meterials Ecology - waste materials : Avoid release to the SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regulations Additional information Other information : No supplementary i ADR : N/A Packing group (ADR) : N/A Hazard identification number (Kemler No.) : N/A Hazard identification number (Kemler No.) : N/A Classification code (ADR) : N/A Transport by sea No additional information available	anner in accordance with local/national regulations.
Persistence and degradability Not established. 12.3. Bioaccumulative potential Solution A Bioaccumulative potential Not established. 12.4. Mobility in soil No additional information available Image: Solution Solutis Solutis Solution Solution Solution Solution Solutis	anner in accordance with local/national regulations.
12.3. Bioaccumulative potential Solution A Bioaccumulative potential Not established. 12.4. Mobility in soil No additional information available 12.5. Other adverse effects Other information : Avoid release to the SECTION 13: Disposal considerations 13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe m Ecology - waste materials : Avoid release to the SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regulations Additional information Other information : No supplementary i ADR Transport document description : UN N/A Packing group (ADR) : N/A Hazard identification number (Kemler No.) : N/A Transport by sea No additional information available	anner in accordance with local/national regulations.
Solution A Bioaccumulative potential Not established. 12.4. Mobility in soil No additional information available 12.5. Other adverse effects Other information : Avoid release to the SECTION 13: Disposal considerations 13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe m Ecology - waste materials : Avoid release to the SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regulations Additional information Other information : No supplementary i ADR : UN N/A Packing group (ADR) : N/A Hazard identification number (Kemler No.) : N/A Hazard identification number (Kemler No.) : N/A Transport by sea No additional information available	anner in accordance with local/national regulations.
Bioaccumulative potential Not established. 12.4. Mobility in soil No additional information available 12.5. Other adverse effects Other information : Avoid release to the SECTION 13: Disposal considerations 13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe m Ecology - waste materials : Avoid release to the SECTION 14: Transport information In accordance with DOT In accordance with DOT No dangerous good in sense of transport regulations Additional information : No supplementary i Additional information : No supplementary i Additional information : N/A Hazard identification number (Kemler No.) : N/A Hazard identification number (Kemler No.) : N/A Classification code (ADR) : N/A Transport by sea No additional information available	anner in accordance with local/national regulations.
12.4. Mobility in soil No additional information available 12.5. Other adverse effects Other information : Avoid release to the SECTION 13: Disposal considerations 13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe m Ecology - waste materials : Avoid release to the SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regulations Additional information Other information : No supplementary i ADR Transport document description : UN N/A Packing group (ADR) : N/A Hazard identification number (Kemler No.) : N/A Transport by sea No additional information available	anner in accordance with local/national regulations.
No additional information available 12.5. Other adverse effects Other information : Avoid release to the SECTION 13: Disposal considerations 13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe m Ecology - waste materials : Avoid release to the SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regulations Additional information Other information : No supplementary i ADR Transport document description : UN N/A Packing group (ADR) : N/A Hazard identification number (Kemler No.) : N/A Transport by sea : No additional information available	anner in accordance with local/national regulations.
No additional information available 12.5. Other adverse effects Other information : Avoid release to the SECTION 13: Disposal considerations 13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe m Ecology - waste materials : Avoid release to the SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regulations Additional information Other information : No supplementary i ADR Transport document description : UN N/A Packing group (ADR) : N/A Hazard identification number (Kemler No.) : N/A Transport by sea : No additional information available	anner in accordance with local/national regulations.
Other information : Avoid release to the SECTION 13: Disposal considerations 13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe m Ecology - waste materials : Avoid release to the SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regulations Additional information Other information Other information Transport document description Packing group (ADR) Hazard identification number (Kemler No.) MA Transport by sea No additional information available	anner in accordance with local/national regulations.
Other information : Avoid release to the SECTION 13: Disposal considerations 13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe m Ecology - waste materials : Avoid release to the SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regulations Additional information Other information Other information Transport document description Packing group (ADR) Hazard identification number (Kemler No.) MA Transport by sea No additional information available	anner in accordance with local/national regulations.
SECTION 13: Disposal considerations 13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe m Ecology - waste materials : Avoid release to the SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regulations Additional information Other information Other information Transport document description Packing group (ADR) Hazard identification number (Kemler No.) N/A Transport by sea No additional information available	anner in accordance with local/national regulations.
13.1. Waste treatment methods Waste disposal recommendations : Dispose in a safe m Ecology - waste materials : Avoid release to the SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regulations Additional information Other information Other information Transport document description Packing group (ADR) Hazard identification number (Kemler No.) N/A Classification code (ADR) Transport by sea No additional information available	-
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SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regulations Additional information Other information Other information Transport document description Packing group (ADR) Hazard identification number (Kemler No.) N/A Transport by sea No additional information available	environment.
Additional information Additional information Cher inform	
In accordance with DOT No dangerous good in sense of transport regulations Additional information Other information : No supplementary i ADR Transport document description : UN N/A Packing group (ADR) : N/A Hazard identification number (Kemler No.) : N/A Classification code (ADR) : N/A Transport by sea No additional information available	
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Transport document description: UN N/APacking group (ADR): N/AHazard identification number (Kemler No.): N/AClassification code (ADR): N/ATransport by seaNo additional information available	
Packing group (ADR): N/AHazard identification number (Kemler No.): N/AClassification code (ADR): N/ATransport by seaNo additional information available	
Hazard identification number (Kemler No.) : N/A Classification code (ADR) : N/A Transport by sea No additional information available	
Classification code (ADR) : N/A Transport by sea No additional information available	
Transport by sea No additional information available	
No additional information available	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA	
No additional information available	
EU-Regulations	
No additional information available	

Classification according to Regulation (EC) No. 1272/2008 [CLP]

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

Classification according to Directive 67/548/EEC or 1999/45/EC Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information

: None.

SDS US (GHS HazCom 2012)

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 12/28/2017 Version: 1.0

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

1.1. Product identifier Trade name

: SenSATIVAx® Solution B

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

Use of the substance/mixture : Laboratory use/Manufacturing component/Research

1.3. Details of the supplier of the safety data sheet

Medicinal Genomics 100 Cummings Center Beverly, MA 01915 - USA T 866.574.3582 www.medicinalgenomics.com

1.4. Emergency telephone number

Emergency number

: 866-574-3582

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

 Flam. Liq. 2
 H225

 Acute Tox. 4 (Oral)
 H302

 Skin Irrit. 2
 H315

 STOT SE 3
 H336

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)

	GHS02 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H225 - Highly flammable liquid and vapor H302 - Harmful if swallowed H315 - Causes skin irritation H336 - May cause drowsiness or dizziness
Precautionary statements (GHS-US)	 P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof processing equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P264 - Wash hands, forearms, face thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P302+P352 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P312 - Call a POISON CENTER/doctor/physician if you feel unwell P332+P313 - If skin irritation occurs: Get medical advice/attention P332+P313 - I case of fire: Use dry foam, sand for extinction P403+P233 - Store in a well-ventilated place. Keep cool
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P405 - Store locked up P501 - Dispose of contents/container to authorized waste facility

3.3. Other hazards lo additional information available 4. Unknown acute toxicity (GHS-US) lo data available SECTION 3: Composition/information on ingredients A.1. Substance bid applicable vill text of H-phrases: see section 16 .2. Mixture SECTION 4: First ald measures irst-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). irst-aid measures after inhalation : Renove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Consult a doctor/medical service. Get medical advice/attention. Specific treatment (see section 4 on this label). : irst-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist. : irst-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor/physician if you feel unwell. : irst-aid measures after ingestion : Rinse immediately with plenty of water. Obtain medical attention. Specific treatment (see section 4 on this label).
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symptoms/injuries after inhalation : May cause drowsiness or dizziness.
ymptoms/injuries after skin contact : Causes skin irritation.
symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.
.3. Indication of any immediate medical attention and special treatment needed
lo additional information available
SECTION 5: Firefighting measures
.1. Extinguishing media
uitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Insuitable extinguishing media : Do not use a heavy water stream.
.2. Special hazards arising from the substance or mixture
ire hazard : Highly flammable liquid and vapor.
Explosion hazard : May form flammable/explosive vapor-air mixture.
.3. Advice for firefighters
irefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measures
.1. Personal precautions, protective equipment and emergency procedures
General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
.1.1. For non-emergency personnel
mergency procedures : Evacuate unnecessary personnel.
.1.2. For emergency responders
Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.

SenSATIVAx® Solution B Safety Data Sheet

Emergency procedures	: Ventilate area.
5 7 1	
	tify authorities if liquid enters sewers or public waters.
, ,	
6.3. Methods and material for containn	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and person	al protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands, forearms, face thoroughly after handling.
7.2. Conditions for safe storage, inclue	ding any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof processing equipment.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Direct sunlight., Heat sources. Keep in fireproof place. Keep container tightly closed.
Incompatible products	: Strong bases. strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/per	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Evo protoction	: Chemical goggles or safety glasses.
	: Wear suitable protective clothing.
Skin and body protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is
Skin and body protection Respiratory protection	
Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical	 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. When using, do not eat, drink or smoke.
Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and	 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. When using, do not eat, drink or smoke.
Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and	 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. When using, do not eat, drink or smoke.
Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state	 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. When using, do not eat, drink or smoke.
Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color	 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. When using, do not eat, drink or smoke. properties chemical properties Liquid
Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color Odor	 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. When using, do not eat, drink or smoke. properties chemical properties Liquid Colorless.
Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color Odor Odor threshold	 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. When using, do not eat, drink or smoke. properties Liquid Colorless. characteristic.
Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color Odor Odor threshold pH	 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. When using, do not eat, drink or smoke. Properties Liquid Colorless. characteristic. No data available
Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color Odor Odor Odor threshold pH Relative evaporation rate (butyl acetate=1)	 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. When using, do not eat, drink or smoke. properties Liquid Colorless. characteristic. No data available No data available No data available
Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color Odor Odor threshold pH Relative evaporation rate (butyl acetate=1) Melting point	 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. When using, do not eat, drink or smoke. properties Liquid Colorless. characteristic. No data available
Physical state Color Odor Odor threshold pH Relative evaporation rate (butyl acetate=1) Melting point Freezing point	 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. When using, do not eat, drink or smoke. properties Liquid Colorless. characteristic. No data available
Skin and body protection Respiratory protection Other information SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color Odor Odor threshold oH Relative evaporation rate (butyl acetate=1) Melting point	 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. When using, do not eat, drink or smoke. properties Liquid Colorless. characteristic. No data available

Self ignition temperature

Decomposition temperature

Flash point

: No data available

: No data available

: No data available

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Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

Acute toxicity

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation Causes skin irritation. Serious eye damage/irritation Not classified Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness. Specific target organ toxicity (repeated : Not classified exposure)

 Aspiration hazard
 : Not classified

 Potential Adverse human health effects and symptoms
 : Based on available data, the classification criteria are not met. Harmful if swallowed.

 Symptoms/injuries after inhalation
 : May cause drowsiness or dizziness.

 Symptoms/injuries after skin contact
 : Causes skin irritation.

 Symptoms/injuries after ingestion
 : Swallowing a small quantity of this material will result in serious health hazard.

: Harmful if swallowed.

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SECTION 12: Ecological informatio	on and a second s
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
SenSATIVAx® Solution B	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
SenSATIVAx® Solution B	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ons
13.1. Waste treatment methods	
Waste disposal recommendations	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to authorized waste facility.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	n
In accordance with DOT	
No dangerous good in sense of transport regul	lations
Additional information	
Other information	: No supplementary information available.
ADR	. 1151 51/A
Transport document description Packing group (ADR)	: UN N/A : N/A
Hazard identification number (Kemler No.)	: N/A
Classification code (ADR)	: N/A
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	on
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA	
No additional information available	
Ell De sude fans	
EU-Regulations No additional information available	

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Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information

: None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Flam. Liq. 2	Flammable liquids Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H315	Causes skin irritation
H336	May cause drowsiness or dizziness

SDS US (GHS HazCom 2012)

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.