

Recommended restrictions : For professional users only.	<u>3-2013</u>
 Identification of the substance/mixture and of the company/undertaking Product identifier Commercial Product Name GIEMSA STAINING KIT MatNo./ Genisys-No. 05279224001 Relevant identified uses of the substance or mixture and uses advised against Recommended restrictions For professional users only. 	3-2013
 1.1 Product identifier Commercial Product Name GIEMSA STAINING KIT MatNo./ Genisys-No. 05279224001 1.2 Relevant identified uses of the substance or mixture and uses advised against Recommended restrictions For professional users only. 	
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Recommended restrictions : For professional users only.	
on use	
1.3 Details of the supplier of the safety data sheet	
Company : Ventana Medical Systems 1910 E. Innovation Park Drive 85755 Tucson AZ	
E-mail address : Telephone : 1-800-227-2155 or 520-877-2155 Telefax : Responsible Department :	
In case of emergencies: : CHEMTREC 1-800-424-9300 (U.S. or Canada) 1-703-527-3887 (International)	
2. Hazards identification	
2.1 Classification of the substance or mixture	
Classification (REGULATION (EC) No 1272/2008)	
Flammable liquids, Category 2H225: Highly flammable liquid and vapour.Acute toxicity, Category 3H301: Toxic if swallowed.Acute toxicity, Category 3H331: Toxic if inhaled.Acute toxicity, Category 3H311: Toxic in contact with skin.Specific target organ toxicity - singleH370: Causes damage to organs.	
Classification (67/548/EEC, 1999/45/EC)	
Highly flammableR11: Highly flammable.ToxicR23/24/25: Toxic by inhalation, in contact with ski and if swallowed.	in
ToxicR39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.	
2.2 Label elements	
Labelling (REGULATION (EC) No 1272/2008)	



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Hazard pictograms			
Signal word	: Danger		
Hazard statements	: H225 H301 + H311 + I	or if inhaled	wed, in contact with skin
	H370	Causes damage to	organs.
Precautionary statements	: Prevention: P210 P233 P240	Keep away from he flames/hot surfaces Keep container tigh Ground/bond conta equipment.	s No smoking. tly closed. iner and receiving
	P241	lighting/ equipment.	
	P242	Use only non-spark	
	P243	Take precautionary discharge.	measures against static
	P260	Do not breathe dus vapours/ spray.	t/ fume/ gas/ mist/
	P264	Wash skin thorough	nly after handling.
	P270		smoke when using this
	P271	•	or in a well-ventilated
	P280	Wear protective glo eye protection/ face	ves/ protective clothing/
	Response:		
	P301 + P310		or doctor/ physician.
	P303 + P361 + F	()	or hair): Remove/ Take contaminated clothing. er/ shower.
	P304 + P340		ove victim to fresh air a position comfortable
	P307 + P311		POISON CENTER or
	P322		(see supplemental first his label).
	P330	Rinse mouth.	<i>`</i>
	P361	Remove/Take off in contaminated clothi	
	P363		d clothing before reuse.
	P370 + P378	In case of fire: Use	dry sand, dry chemical foam for extinction.
	Storage:	-	
	P403 + P233	Store in a well-vent container tightly clo	
	2/1	5	



rsion 1.0	Revis	sion Date 09-10-20	12 Pi	rint Date 05-13-2
	P403 · P405 Dispo	Store I	n a well-ventilated pla ocked up.	ace. Keep cool.
	P501	Dispos	e of contents/ contair ed waste disposal pla	
3 Other hazards				
No information available	Э.			
Composition/informatio	n on ingredient	s		
2 Mixtures				
Giemsa Stain				
Classification (REGUL	ATION (EC) No	1272/2008)		
Acute toxicity, Category Acute toxicity, Category Acute toxicity, Category Specific target organ to exposure, Category 1	/ 3 / 3			
Classification (67/548/	'EEC, 1999/45/E	C)		
Flammable Toxic		contact with sl of very serious	ble. 39/23/24/25: Toxic by kin and if swallowed., s irreversible effects t contact with skin and i	Toxic: danger hrough
Hazardous componen	ts			
Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
methanol	67-56-1 200-659-6	F; R11 T; R23/24/25- R39/23/24/25	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311	

4. First aid measures

4.1 Description of first aid measures



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General advice	: Move out of dangerou Consult a physician. Show this safety data Do not leave the victin	sheet to the doctor in attendance.
If inhaled	: Move to fresh air.	
	: If unconscious place in advice. If symptoms persist, c	in recovery position and seek medical call a physician.
In case of skin contact	: If on skin, rinse well w If on clothes, remove of	
In case of eye contact	: Immediately flush eye Remove contact lense Protect unharmed eye Keep eye wide open v If eye irritation persists	es. e.
If swallowed	: Keep respiratory tract Do not give milk or alc Never give anything b If symptoms persist, c Take victim immediate Rinse mouth with wate	coholic beverages. by mouth to an unconscious person. call a physician. ely to hospital.
4.2 Most important symptoms ar	d effects, both acute and	d delayed
Symptoms	: No information availab	ble.
4.3 Indication of any immediate r	nedical attention and spe	ecial treatment needed
Treatment		e should be established in consultation nsible for industrial medicine.
5. Firefighting measures		
5.1 Extinguishing media		
Suitable extinguishing media	: Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical	
	Dry chemical	
Unsuitable extinguishing media	: High volume water jet	
media	: High volume water jet	
media	: High volume water jet	
media 5.2 Special hazards arising from Specific hazards during firefighting	: High volume water jet the substance or mixture : Do not allow run-off from	e
media 5.2 Special hazards arising from Specific hazards during	 High volume water jet High volume or mixture Do not allow run-off free courses. 	e



Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers. 6. Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Refer to protective measures listed in sections 7 and 8. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. 6.2 Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained. 6.3 Methods and materials for containment and cleaning up Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculie) and place in container for disposal according to local / national regulations (see section 13). 6.4 Reference to other sections The section "Disposal considerations".	GIEWISA STAINING KIT		
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	regula	ions.		
Advice on protection a fire and explosion	Take r (which Use or	ecessary act might cause nly explosion away from op		
2 Conditions for safe st	orage, including a	iny incompa	tibilities	
Requirements for stora areas and containers	Keep o place. Contai kept u Obsen Electric	container tigh ners which a oright to prev ve label preca cal installatio	re opened must b ent leakage. autions.	v and well-ventilated be carefully resealed and erials must comply with
Further information on storage conditions Other data		bel or packag	ge insert f stored and appli	ed as directed.
2 Enacific and usa(a)				
3 Specific end use(s)				
Specific use(s)		ntory chemica	als	
	sonal protection		als	
Specific use(s) Exposure controls/pers Exposure Guidelines Giemsa Stain	sonal protection		als Control parameters	Source
Specific use(s) Exposure controls/pers Exposure Guidelines <i>Giemsa Stain</i> Components with wo	sonal protection	arameters	Control	USA. ACGIH Threshold
Specific use(s) Exposure controls/pers Exposure Guidelines <i>Giemsa Stain</i> Components with wo	sonal protection	arameters Value	Control parameters	USA. ACGIH Threshold Limit Values (TLV) USA. ACGIH Threshold
Specific use(s) Exposure controls/pers Exposure Guidelines <i>Giemsa Stain</i> Components with wo	sonal protection	arameters Value TWA	Control parameters 200 ppm	USA. ACGIH Threshold Limit Values (TLV) USA. ACGIH Threshold Limit Values (TLV) USA. ACGIH Threshold
Specific use(s) Exposure controls/pers Exposure Guidelines <i>Giemsa Stain</i> Components with wo	sonal protection	arameters Value TWA TWA	Control parameters 200 ppm 200 ppm	USA. ACGIH Threshold Limit Values (TLV) USA. ACGIH Threshold Limit Values (TLV) USA. ACGIH Threshold Limit Values (TLV) USA. ACGIH Threshold
Specific use(s) Exposure controls/pers Exposure Guidelines <i>Giemsa Stain</i> Components with wo	sonal protection	arameters Value TWA TWA STEL	Control parameters 200 ppm 200 ppm 250 ppm	USA. ACGIH Threshold Limit Values (TLV) USA. ACGIH Threshold Limit Values (TLV) USA. ACGIH Threshold Limit Values (TLV)



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	ST	250 ppm 325 mg/m3	USA. NIOSH Recommended Exposure Limits
	ST	250 ppm 325 mg/m3	USA. NIOSH Recommended Exposure Limits
	TWA	200 ppm 260 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	TWA	200 ppm 260 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	TWA	200 ppm 260 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
	TWA	200 ppm 260 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
	STEL	250 ppm 325 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
	STEL	250 ppm 325 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

Personal protective equipment

Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles
Hand protection	: Protective gloves
Skin and body protection	: impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: In the case of vapour formation use a respirator with an approved filter.
Hygiene measures	 Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the
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Version 1.0	Revision Date 09-10-2012	Print Date 05-13-2013
	product.	
9. Physical and chemical prop	erties	
9.1 Information on basic physi	cal and chemical properties	
<i>Giemsa Stain</i> Appearance	: liquid	
Colour	: blue	
Odour	: alcohol-like	
рН	: neutral	
Melting point/range	: no data available	
Boiling point/boiling range	: no data available	
Flash point	: 21 °C	
Lower explosion limit	: no data available	
Upper explosion limit	: no data available	
Vapour pressure	: no data available	
Water solubility	: completely miscible	
Partition coefficient: n- octanol/water	: no data available	
Ignition temperature	: no data available	
Thermal decomposition	: no data available	
Viscosity, dynamic	: no data available	
Oxidizing properties	: The substance or mixture is not cla	ssified as oxidizing.
9.2 Other information		
<i>Giemsa Stain</i> Conductivity	: no data available	
Oxidising potential	: no data available	
Surface tension	: no data available	
10. Stability and reactivity		
10.1 Reactivity		
No dangerous reaction know	vn under conditions of normal use.	
10.2 Chemical stability		
Stable under normal condition	ons.	
10.3 Possibility of hazardous r	eactions	
Hazardous reactions	: Reacts with the following substance Acids	es:
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/ersion 1.0	Revision Date 09-10-2012	Print Date 05-13-2013
	Alkali metals Oxidizing agents Reducing agents	
	: Further information: No decomp directed.	position if stored and applied as
	: Vapours may form explosive m	ixture with air.
0.4 Conditions to avoid		
Conditions to avoid	: Heat, flames and sparks.	
0.5 Incompatible materials		
Materials to avoid	: no data available	
0.6 Hazardous decomposition p	roducts	
Hazardous decomposition products	: Carbon oxides	
1. Toxicological information 1.1 Information on toxicological	effects	
-	effects	
1.1 Information on toxicological <i>Giemsa Stain</i> <u>Components:</u>	effects	
1.1 Information on toxicological <i>Giemsa Stain</i>	effects : Acute toxicity estimate: 100 mg	ŋ∕kg, Expert judgement
1.1 Information on toxicological <i>Giemsa Stain</i> <u>Components:</u> methanol :		
1.1 Information on toxicological <i>Giemsa Stain</i> <u>Components:</u> methanol :	: Acute toxicity estimate: 100 mg	
1.1 Information on toxicological <i>Giemsa Stain</i> <u>Components:</u> methanol :	: Acute toxicity estimate: 100 mg : LD50 Oral: 7,300 mg/kg, mouse	e
1.1 Information on toxicological <i>Giemsa Stain</i> <u>Components:</u> methanol : Acute oral toxicity	 Acute toxicity estimate: 100 mg LD50 Oral: 7,300 mg/kg, mouse LD50 Oral: 5,600 mg/kg, rat 	e
1.1 Information on toxicological <i>Giemsa Stain</i> <u>Components:</u> methanol : Acute oral toxicity	 Acute toxicity estimate: 100 mg LD50 Oral: 7,300 mg/kg, mouse LD50 Oral: 5,600 mg/kg, rat Acute toxicity estimate: 3 mg/l, 	e
1.1 Information on toxicological <i>Giemsa Stain</i> <u>Components:</u> methanol : Acute oral toxicity	 Acute toxicity estimate: 100 mg LD50 Oral: 7,300 mg/kg, mouse LD50 Oral: 5,600 mg/kg, rat Acute toxicity estimate: 3 mg/l, LC50: 85.26 mg/l, 4 h, rat, 	e vapour, Expert judgement
1.1 Information on toxicological <i>Giemsa Stain</i> <u>Components:</u> methanol : Acute oral toxicity Acute inhalation toxicity	 Acute toxicity estimate: 100 mg LD50 Oral: 7,300 mg/kg, mouse LD50 Oral: 5,600 mg/kg, rat Acute toxicity estimate: 3 mg/l, LC50: 85.26 mg/l, 4 h, rat, LC50: 64000 ppm, 4 h, rat, 	e vapour, Expert judgement g/kg, Expert judgement
1.1 Information on toxicological <i>Giemsa Stain</i> <u>Components:</u> methanol : Acute oral toxicity Acute inhalation toxicity	 Acute toxicity estimate: 100 mg LD50 Oral: 7,300 mg/kg, mouse LD50 Oral: 5,600 mg/kg, rat Acute toxicity estimate: 3 mg/l, LC50: 85.26 mg/l, 4 h, rat, LC50: 64000 ppm, 4 h, rat, Acute toxicity estimate: 300 mg 	e vapour, Expert judgement g/kg, Expert judgement
1.1 Information on toxicological Giemsa Stain Components: methanol : Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Acute toxicity (other routes of	 Acute toxicity estimate: 100 mg LD50 Oral: 7,300 mg/kg, mouse LD50 Oral: 5,600 mg/kg, rat Acute toxicity estimate: 3 mg/l, LC50: 85.26 mg/l, 4 h, rat, LC50: 64000 ppm, 4 h, rat, Acute toxicity estimate: 300 mg LD50 Dermal: 15,800 mg/kg, rat 	e vapour, Expert judgement g/kg, Expert judgement abbit
 1.1 Information on toxicological <i>Giemsa Stain</i> <u>Components:</u> methanol : Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Acute toxicity (other routes of administration) 	 Acute toxicity estimate: 100 mg LD50 Oral: 7,300 mg/kg, mouse LD50 Oral: 5,600 mg/kg, rat Acute toxicity estimate: 3 mg/l, LC50: 85.26 mg/l, 4 h, rat, LC50: 64000 ppm, 4 h, rat, Acute toxicity estimate: 300 mg LD50 Dermal: 15,800 mg/kg, rat no data available The product may be absorbed at the set of the s	e vapour, Expert judgement g/kg, Expert judgement abbit
 1.1 Information on toxicological Giemsa Stain Components: methanol : Acute oral toxicity Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Acute toxicity (other routes of administration) Skin corrosion/irritation Serious eye damage/eye 	 Acute toxicity estimate: 100 mg LD50 Oral: 7,300 mg/kg, mouse LD50 Oral: 5,600 mg/kg, rat Acute toxicity estimate: 3 mg/l, LC50: 85.26 mg/l, 4 h, rat, LC50: 64000 ppm, 4 h, rat, Acute toxicity estimate: 300 mg LD50 Dermal: 15,800 mg/kg, rat no data available The product may be absorbed to skin. 	e vapour, Expert judgement g/kg, Expert judgement abbit through the skin., May irritate rritation.
 1.1 Information on toxicological Giemsa Stain Components: methanol : Acute oral toxicity Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Acute toxicity (other routes of administration) Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin 	 Acute toxicity estimate: 100 mg LD50 Oral: 7,300 mg/kg, mouse LD50 Oral: 5,600 mg/kg, rat Acute toxicity estimate: 3 mg/l, LC50: 85.26 mg/l, 4 h, rat, LC50: 64000 ppm, 4 h, rat, Acute toxicity estimate: 300 mg LD50 Dermal: 15,800 mg/kg, rat no data available The product may be absorbed to skin. Contact with eyes may cause in 	e vapour, Expert judgement g/kg, Expert judgement abbit through the skin., May irritate rritation.



GLINGA STAINING KIT			
Version 1.0		Revision Date 09-10-2012	Print Date 05-13-2013
Genotoxicity in vivo	:	Result: negative	
STOT - single exposure	:	Assessment: Causes damage to organ	S.
STOT - repeated exposure	:	Assessment: The substance or mixture specific target organ toxicant, repeated	
Aspiration toxicity	:	No aspiration toxicity classification	
Further information	:	Solvents may degrease the skin.	
12. Ecological information 12.1 Toxicity			
Giemsa Stain <mark>Components:</mark>			
methanol :			
Toxicity to fish	:	LC50: 15,400 mg/l, 96 h, Lepomis mac sunfish) LC50: 8,000 mg/l, 48 h, Oncorhynchus	mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates		LC50: > 10,000 mg/l, Leuciscus idus (G EC50: > 10,000 mg/l, 48 h, Daphnia ma	
Toxicity to algae Toxicity to bacteria Ecotoxicology Assessment		8,000 mg/l, 8 d, Scenedesmus quadrica 6,600 mg/l, 16 h, Bacteria	auda (Green algae)
Toxicity Data on Soil	:	Not expected to adsorb on soil.	
Other organisms relevant to the environment	:	no data available	
12.2 Persistence and degradabilit	ty		
Giemsa Stain <u>Components:</u>			
methanol :			
Biodegradability	:	99 %, Result: Readily biodegradable., B OECD Test Guideline 301	Exposure time: 30 d,
12.3 Bioaccumulative potential			
<i>Giemsa Stain</i> <u>Components:</u> methanol :			
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GIEMSA STAINING KIT Version 1.0 Revision Date 09-10-2012 Print Date 05-13-2013 Bioaccumulation : Does not bioaccumulate. 12.4 Mobility in soil Giemsa Stain Components: methanol : : no data available Mobility Distribution among : no data available environmental compartments Environmental fate and : no data available pathways Physico-chemical : no data available removability 12.5 Results of PBT and vPvB assessment Giemsa Stain **Components:** methanol: Assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB). 12.6 Other adverse effects Giemsa Stain **Components:** methanol : : 600 - 1,120 mg/g, Biochemical oxygen demand, 5 d Biochemical Oxygen Demand (BOD) Dissolved organic carbon : no data available (DOC) : 1,420 mg/g Chemical Oxygen Demand (COD) Adsorbed organic bound : no data available halogens (AOX)



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13. Disposal considerations	_		
13.1 Waste treatment methods			
Product	:	Do not contaminate ponds, waterway chemical or used container. Send to a licensed waste manageme Can be disposed as waste water, wh local regulations.	ent company.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch or	n, the empty drum.
14. Transport information			
14.1 UN number			
DOT IMDG IATA	:	1230 1230 1230	
14.2 Proper shipping name			
DOT IMDG IATA	:	Methanol Methanol Methanol	
14.3 Transport hazard class			
DOT IMDG IATA		3 3 3	
14.4 Packing group			
DOT Packaging group Labels Tunnel restriction code IMDG Packaging group Labels EmS Number IATA_C Packing instruction (cargo aircraft)		II 3 (6.1) packed, Transport in tanks II 3 (6.1) F-E, S-D 364	
Packaging group Labels IATA_P Packing instruction	:	II 3 (6.1) 352	
(passenger aircraft) Packaging group Labels	:	II 3 (6.1) 12 / 15	



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14.5 Environmental hazards			
DOT Environmentally hazardous		: no	
IMDG Marine Pollutant		: no	
IATA Environmentally hazardous		: no	
14.6 Special precautions for us	er		
no data available			
-	ng to	o Annex II of MARPOL 73/78 and the IBC	Code
Remarks		: not applicable	
15. Regulatory information			
-	me	ntal regulations/legislation specific for the	e substance or mixture
Giemsa Stain REGULATORY INFORMAT	ION	I	
OSHA Hazards	:	Flammable liquid	
WHMIS Classification	:	B2 Flammable liquid Flammable liquid	
This product has been class all of the information require		according to the hazard criteria of the CPR the CPR.	and the MSDS contains
CERCLA Reportable Quan	tity		
Components	:	methanol methanol	5000 lbs 5000 lbs
SARA 302 Reportable Qua	ntit	y	
Product		This material does not contain any compon 302 RQ.	ents with a SARA
SARA 311/312 Hazards	:	Fire Hazard	
EPCRA - Emergency Planr	ning	and Community Right-to-Know Act	
SARA 302	:	SARA 302: No chemicals in this material ar reporting requirements of SARA Title III, Se	
SARA 304	:	This material does not contain any compon 304 EHS RQ.	ents with a section
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Components	: methanol			
Clean Air Act				
Ozone-Depletion Potential	: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).			
	s) are listed as HAP under the U.S. Clean	Air Act, Section 12 (40 CFR		
	70 % tain any chemicals listed under the U.S. Cle ntion (40 CFR 68.130, Subpart F).	ean Air Act Section 112(r) for		
The following chemical(Intermediate or Final VC	s) are listed under the U.S. Clean Air Act C's (40 CFR 60.489):	Section 111 SOCMI		
methanol	70 %			
Section 311, Table 116.4/	tain any Hazardous Chemicals listed under			
US State Regulations				
Massachusetts Right To	Know			
Components	: methanol	70 - 90 %		
Pennsylvania Right To F	(now			
Components	: methanol water	70 - 90 % 10 - 30 %		
New Jersey Right To Kn	ow			
Components	: methanol water	70 - 90 % 10 - 30 %		
California Prop 65 Components		: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.		
15.2 Chemical Safety Assess A Chemical Safety Assess applications.	ment sment is not required for this substance whe	en it is used in the specified		
16. Other information				
	ferred to under sections 2 and 3			



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Full text of H-Statements referred to under sections 2 and 3.

Further information

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.