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SECTION	1. IDENTIFICATION					
Produ	uct name	:	MARK-IT® BLUE			
Produ	uct code	:	00000003000004487			
Manu	facturer or supplier's	deta	ails			
Comp	pany name of supplier	:	Milliken & Compa	ny		
Addre	Address		920 Milliken Rd Spartanburg SC 2	29303		
Telep	hone	:	+1-864-503-1940	(M-F, 8-5 EST)		
E-ma	E-mail address		sds@milliken.com			
Emergency telephone		:		ency call CHEMTREC US: 1-800-424-9300, RLD: 1-703-527-3887.		

Recommended use of the chemical and restrictions on use

|--|

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Respiratory sensitization	:	Category 1		
Skin sensitization	:	Category 1		
GHS label elements Hazard pictograms	:			
Signal Word	:	Danger		
Hazard Statements	:	H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
Precautionary Statements	:	Prevention: P261 Avoid breathing mist or vapors. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves.		

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		P285 In case of inadequate ventilation wear respiratory protection.				
		Response:				
		 P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. P363 Wash contaminated clothing before reuse. 				
		Disposal:				
		P501 Dispose of contents/ container to an approved waste disposal plant.				
Other	hazards					
None	known.					

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)					
glutaral	111-30-8	>= 0.1 - < 1					
Actual concentration is withheld as a trade secret							

SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	Call a physician or poison control center immediately. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	:	If on skin, rinse well with water.
In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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				Take victim imme	diately to hospital.		
		nportant symptoms ects, both acute and d	:	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
	Notes t	o physician	:	Treat symptomati	cally.		
SEC	TION 5	. FIRE-FIGHTING ME	ASL	IRES			
	Unsuita media	able extinguishing	:	High volume water jet			
	Further information		:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
	Special protective equipment for fire-fighters		:	Wear self-contained breathing apparatus for firefighting if necessary.			
SEC	TION 6	. ACCIDENTAL RELE	AS	EMEASURES			
	Personal precautions, : protective equipment and emergency procedures			Use personal protective equipment. Ensure adequate ventilation.			
	Environmental precautions :		:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.			

Methods and materials for	:	Soak up with inert absorbent material (e.g. sand, silica gel,
containment and cleaning up		acid binder, universal binder, sawdust).
		Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection agains fire and explosion	t:	Normal measures for preventive fire protection.
Advice on safe handling	:	 Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not

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		be em used.	oloyed in a	ny process in which this mixture is being
Conditions for safe storage		 Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply w the technological safety standards. 		
	ner information on age stability	: No deo	compositior	if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
glutaral	111-30-8	С	0.2 ppm 0.8 mg/m3	NIOSH REL
		С	0.2 ppm 0.8 mg/m3	OSHA P0
		С	0.05 ppm	ACGIH

Personal protective equipment

Hand protection

Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	:	Eye wash bottle with pure water Tightly fitting safety goggles
Skin and body protection	:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	:	Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	blue
Odor	:	mild
Odor Threshold	:	No data available

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pН		:	3 - 5	
Melti	ng point/freezing point	:	< 32 °F / < 0 °C	
Boilir	ng point/boiling range	:	> 212 °F / > 100	°C
Flas	n point	:	The product is no	ot flammable.
Evap	poration rate	:	No data availabl	e
Flam	mability (solid, gas)	:	No data availabl	e
Flam	mability (liquids)	:	No data availabl	e
Self-	ignition	:	No data availabl	e
	er explosion limit / Upper mability limit	:	No data availabl	e
	er explosion limit / Lower mability limit	:	No data availabl	e
Vapo	or pressure	:	No data availabl	e
Rela	tive vapor density	:	No data availabl	e
Rela	tive density	:	No data availabl	e
Dens	sity	:	No data availabl	e
	bility(ies) /ater solubility	:	soluble	
S	olubility in other solvents	:	No data availabl	e
	tion coefficient: n- nol/water	:	No data availabl	e
Auto	ignition temperature	:	No data availabl	e
Deco	omposition temperature	:	No data availabl	e
V	iscosity, dynamic	:	No data availabl	e
V	iscosity, kinematic	:	No data availabl	e

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.

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Possi reacti	bility of hazardous	: No decomposition if stored and applied as directed.
Cond	itions to avoid	: No data available
Incon	npatible materials	: Not applicable
	11. TOXICOLOGICAI	

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 200 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks

: Vapors may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Product:

Remarks

: Causes sensitization.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information. IARC No ingredient of this product present at levels greater than or equal to 0.1% is

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	identified as probable, possible or confirmed human carcinogen by IARC.					
OSHA No component of this product present at levels greater than or equal t on OSHA's list of regulated carcinogens.						
	NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.				
	-	ductive toxicity Issified based on avail	lable	information.		
	STOT-	single exposure				
	Not cla	ssified based on avail	lable	information.		
	STOT-	repeated exposure				
		ssified based on avail	lable	information.		
	-	t ion toxicity Issified based on avail	lahla	information		
		r information	lable	information.		
	Produ Remar		:	No data available		
SEC	ECTION 12. ECOLOGICAL INFORMATION					
	Fasta					
	Ecoto: No dat	a available				
		tence and degradabi	ilitv			
		a available	,			
	Bioaco	cumulative potential				
	No dat	a available				
	Mobili	ty in soil				
	No dat	a available				
	Other	adverse effects				
	<u>Produ</u>	<u>ct:</u>				
	Ozone	-Depletion Potential	:	Protection of Stra Substances Remarks: This pro- manufactured with	R Protection of Environment; Part 82 tospheric Ozone - CAA Section 602 Class I oduct neither contains, nor was n a Class I or Class II ODS as defined by the t Section 602 (40 CFR 82, Subpt. A, App.A +	
	Additio informa	nal ecological ation	:	No data available		

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
methanol	67-56-1	100	100 (F003)

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain an	y components	with a section	302 EHS TPQ.

SARA 311/312 Hazards : Respiratory or skin sensitization

SARA 313: This material does not contain any chemical components with
known CAS numbers that exceed the threshold (De Minimis)
reporting levels established by SARA Title III, Section 313.

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Clean Air Act

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).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

California Prop. 65

WARNING: This product can expose you to chemicals including methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Additional information is available by request. (regulatory@milliken.com)

SECTION 16. OTHER INFORMATION

Further information

Full text of other abbreviations

ACGIH NIOSH REL OSHA P0	:	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
ACGIH / C NIOSH REL / C OSHA P0 / C	:	Ceiling limit Ceiling value not be exceeded at any time. Ceiling limit

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response Guide;

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GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; 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

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Please Note: As each customer's use of our product may be different, information we provide, including without limitation, any regulatory information, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at www.milliken.com/terms (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.

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