

4223

URETHANE CONFORMAL COATING

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Product Name:** 4223**Other Means of Identification:** Urethane Conformal Coating**Related Part #** 4223-55ML, 4223-1L, 4223-4L, 4223-20L


### Recommended Use and Restriction on Use

**Use:** Protective conformal coating for printed circuit boards**Uses Advised Against:** Not available

### Details of Manufacturer or Importer

**Manufacturer**MG Chemicals  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADAMG Chemicals (Head Office)  
9347-193 Street  
Surrey, British Columbia V4N 4E7  
CANADA

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**E-MAIL** (Competent Person): [sds@mgchemicals.com](mailto:sds@mgchemicals.com)

### Emergency Phone Number




**For hazardous material incidents ONLY** (leaks, spills, fires, exposures or accidents)  
USA or CANADA—Call CHEMTREC at **+1-800-424-9300****For emergencies involving the transport of dangerous goods;** 24/7 service  
CANADA—Call CANUTEC collect at **+1-613-996-6666** or **\*666** on cellular phones

**4223**
**URETHANE CONFORMAL COATING**
**Section 2: Hazard(s) Identification**
**Classification of Hazardous Chemical**
**GHS Categories**

Criteria		Category	Signal Word	Pictograms
Specific target organ toxicity	Repeated exposure	2	Warning	Health
Carcinogenicity		2	Warning	Health
Flammable liquid		3	Warning	Flame
Sensitization	Skin	1	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Eye irritation		2A	Warning	Exclamation
Specific target organ toxicity	Single exposure	3	Warning	Exclamation
Hazardous to the Aquatic Environment	Chronic	3	<i>none</i>	<i>none</i>

*Note:* The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity). Severity categories rankings do not allow comparisons between classes.

**Label Elements**

<b>Signal Word</b>	<b>WARNING</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H226: Flammable liquid and vapor
	H351: Suspected of causing cancer H373: May cause damage to inner ear through prolonged or repeated exposure
	H319: Causes serious eye irritation H315: Causes skin irritation H317: May cause an allergic skin reaction H336: May cause dizziness or drowsiness

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**4223****URETHANE CONFORMAL COATING***Continued...*

<b>Pictograms</b>	<b>Hazard Statements</b>
No Symbol Mandated	H412: Harmful to aquatic life with long lasting effects
<b>Prevention</b>	<b>Precautionary Statements</b>
P201, P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P241, P243	Use explosion-proof electrical, ventilating, lighting equipment. Take precautionary measures against static discharge.
P240	Ground and bond container and receiving equipment.
P260, P271	Do not breathe mist, vapors, spray. Use only outdoors or in well-ventilated area.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves, protective clothing, eye protection, face protection.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
<b>Response</b>	<b>Precautionary Statements</b>
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
P308 + P313	IF exposed or concerned: Get medical advice or attention.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice or attention.
P303 + P361 + P364, P352, P312	IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water or shower. Call a POISON CENTER or doctor if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice or attention.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.

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**4223**
**URETHANE CONFORMAL COATING**
*Continued...*

<b>Storage</b>	<b>Precautionary Statements</b>
P403 + P235	Store in well-ventilated place. Keep cool.
P405	Store locked up.
<b>Disposal</b>	<b>Precautionary Statements</b>
P501	Dispose of contents in accordance to local, regional, international regulations.

**Hazards Not Otherwise Classified**

<b>Other Criteria</b>	<b>Hazard Statements/Precautionary Statement</b>	<b>Signal Word</b>	<b>Pictograms</b>
Defats skin	Repeated exposure may cause skin dryness or cracking.	None	None

**Section 3: Composition/Information on Ingredients**

<b>CAS #</b>	<b>Chemical Name</b>	<b>%(weight)</b>
1330-20-7	xylene (mixed isomers)	40–50%
100-41-4	ethylbenzene	10–12%
96-29-7	2-butanone oxamine <sup>a)</sup>	0.1–1%
4342-36-3	tributylstannyl benzoate	0.5%

a) Also known as MEKO

**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
<b>IF IN EYES</b>	P305 + P351 + P338, P337 + P313
<b>Immediate Symptoms</b>	<i>irritation, redness, pain</i>
<b>Response</b>	Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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4223

**URETHANE CONFORMAL COATING***Continued...*

<b>IF ON SKIN (or hair)</b>	P303 + P361 + P364, P352, P333 + P313
<b>Immediate Symptoms</b>	<i>irritation, dry skin, redness</i>
<b>Response</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water or shower.  If you feel unwell: Call a POISON CENTER or doctor.  If skin irritation or rash occurs: Get medical advice or attention.
<b>IF INHALED</b>	P304 + P340, P312, P308 + P313
<b>Immediate Symptoms</b>	<i>cough, irritation of the respiratory track, dizziness, drowsiness, headaches, (in extreme exposure cases: unconsciousness)</i>
<b>Response</b>	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.  If feeling unwell: Call a POISON CENTER or doctor.  If exposed or concerned: Get medical advice or attention.
<b>IF SWALLOWED</b>	P301 + P310, P330, P331
<b>Immediate Symptoms</b>	<i>abdominal pain, burning sensation, nausea, headaches, dizziness, drowsiness, vomiting</i>
<b>Response</b>	Rinse mouth. Do NOT induce vomiting.  If material or vomit is aspirated into lungs: Immediately call a POISON CENTER or doctor.

**Section 5: Fire-Fighting Measures**

<b>Extinguishing Media</b>	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.  Use water spray to cool containers.
<b>Specific Hazards</b>	The vapors are heavier than air and may accumulate in low-lying areas. Vapors may travel long distances and ignite at an ignition source, which can cause a flashback or an explosion.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> ), smoke.
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

4223

**URETHANE CONFORMAL COATING****Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See personal protection recommendations in Section 8.
<b>Precautions for Response</b>	Remove or keep away all sources of extreme heat or open flames. Do not breathe mist, vapors, spray.
<b>Environmental Precautions</b>	Avoid releasing to the environment. Prevent spill from entering drains and waterways.
<b>Containment</b>	Contain with inert absorbent (such as soil, sand, vermiculite).
<b>Cleaning</b>	Collect the liquid in a sealable, solvent-resistant container with an electrically protected vacuum cleaner, chemical absorbent, or chemical spill pad.  <b>RECOMMENDATION:</b> Use a grounded stainless steel or carbon steel container.
<b>Disposal</b>	Dispose of spill waste according to Section 13.

**Section 7: Handling and Storage**

<b>Prevention</b>	Keep out of reach of children.  Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.  Use explosion-proof electrical, ventilating, lighting equipment. Take precautionary measures against static discharge.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source.  Do not breathe vapors, mist, spray. Use only outdoors or in a well-ventilated area.  Avoid release to the environment.
<b>Handling</b>	Wear protective gloves, protective clothing, eye protection, face protection.  Ground and bond container and receiving equipment.  Wash hands thoroughly after handling.
<b>Storage</b>	Keep container tightly closed.  Store in a well-ventilated area. Keep cool.  Store locked up.

4223

## URETHANE CONFORMAL COATING

## Section 8: Exposure Controls/Personal Protection

## Substances with Occupational Exposure Limit Values

Chemical Name	Country/ Provinces	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
xylene (mixed isomers)	ACGIH	100 ppm	150 ppm
	U.S.A. OSHA PEL	100 ppm	Not established
	Canada AB	100 ppm	150 ppm
	Canada BC	100 ppm	150 ppm
	Canada ON	100 ppm	150 ppm
	Canada QC	100 ppm	150 ppm
ethylbenzene	ACGIH	20 ppm	Not established
	U.S.A. OSHA PEL	100 ppm	Not established
	Canada AB	100 ppm	125 ppm
	Canada BC	20 ppm (2B)	Not established
	Canada ON	100 ppm	125 ppm
	Canada QC	100 ppm	125 ppm

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS<sup>2</sup> database and from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

(2B) Carcinogen

## Engineering Controls

## Ventilation

Keep airborne concentrations below the occupational exposure limits (OEL).

## Personal Protective Equipment

## Eye protection

Wear appropriate protective eyeglasses or chemical safety goggles.

**RECOMMENDATION:** Use safety glasses with lateral protection (side shields).

## Skin Protection

For incidental contacts, use disposable nitrile, neoprene, or other chemically resistant gloves.

*Section continued on the next page*

**4223**
**URETHANE CONFORMAL COATING**

**Respiratory Protection** For over-exposures up to 10 x OEL of mist/vapors/spray, wear respirator such as a half-mask respirator with organic vapor cartridges and particulate filter.

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

**RECOMMENDATION:** Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

**General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b>	1%
<b>Appearance</b>	Clear Amber	<b>Upper Flammability Limit</b>	7%
<b>Odor</b>	Aromatic	<b>Vapor Pressure @20 °C</b>	2.2 kPa [16 mmHg] <sup>b)</sup>
<b>Odor Threshold</b>	≥0.324 ppm	<b>Vapor Density</b>	3.66 (Air = 1)
<b>pH</b>	Not available	<b>Relative Density @25 °C</b>	0.94
<b>Freezing/Melting Point</b>	-47 °C [-53 °F]	<b>Solubility in Water</b>	Negligible
<b>Initial Boiling Point</b>	137 °C [279 °F]	<b>Partition Coefficient n-octanol/water</b>	3.16
<b>Flash Point <sup>a)</sup></b>	27 °C [81 °F]	<b>Auto-ignition Temperature</b>	Not available
<b>Evaporation Rate</b>	0.86 (ButAc = 1)	<b>Decomposition Temperature</b>	Not available
<b>Flammability (solid, gas)</b>	Not applicable	<b>Viscosity @40 °C</b>	>20.5 mm <sup>2</sup> /s

a) Based on Tag closed cup value for xylene mixture

b) Estimated based on Raoult's Law and solvent components

4223

**URETHANE CONFORMAL COATING****Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures.
<b>Conditions to Avoid</b>	Ignition sources, excessive heat, and incompatible substances. Vapors may form explosive mixture with air.
<b>Incompatibilities</b>	strong oxidizing agents, strong acids, strong bases
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

**Section 11: Toxicological Information****Summary of Effects and Symptoms by Routes of Exposure**

<b>Eyes</b>	Causes serious irritation, redness, and pain.
<b>Skin</b>	Causes skin redness, irritation, and dry skin.
<b>Inhalation</b>	May cause cough, irritation of the respiratory track, dizziness, drowsiness, headaches. (in extreme exposure cases: unconsciousness and death).
<b>Ingestion</b>	May cause burning sensation, abdominal pain, nausea, and vomiting. (See also inhalation symptoms.)
<b>Chronic</b>	<p>Prolonged or repeated exposure may cause skin dryness and cracking, defat skin, and local redness and discomfort.</p> <p>Prolonged and repeated exposure is possibly carcinogenic based on inhalation studies on rats.</p> <p>Prolonged or repeated overexposure may damage the liver and kidneys.</p> <p>Long term exposure to loud noises and product vapors may lead to some hearing loss.</p>

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4223

**URETHANE CONFORMAL COATING****Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
xylene	4 350 mg/kg Rat	>5 000 mg/kg Rabbit	5 000 ppm 4 h Rat
ethylbenzene	3 500 mg/kg Rat	>5 000 mg/kg Rabbit	35 500 mg/m <sup>3</sup> 2h Mouse
2-butanone oxamine	930 mg/kg Rat	200 µL/kg Rabbit	Not available

*Note:* Toxicity data from the RTECS<sup>2</sup> and ECHA were consulted. The data from supplier SDSs' were also consulted.

**Other Toxicological Effects****Skin corrosion/irritation**

Causes skin irritation.

**Serious eye  
damage/irritation**

Causes severe eye irritation.

**Sensitization**  
(allergic reactions)

2-butanone oxamine may cause allergic skin reactions.

**Carcinogenicity**  
(risk of cancer)**Ethylbenzene [100-41-4]**

IARC Group 2B: Possibly carcinogenic to humans

ACGIH A3: Confirmed animal carcinogen with unknown relevance to humans

CA Prop 65: Listed as a carcinogen

NTP: Not listed

**2-butanone oxamine [96-29-7]**

Limited animal evidence of carcinogenic effects are suggested in the literature.

Not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.

**Mutagenicity**  
(risk of heritable genetic effects)

Based on available data, the classification criteria are not met.

**Reproductive Toxicity** (risk to sex functions)

Based on available data, the classification criteria are not met.

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**4223****URETHANE CONFORMAL COATING**

<b>Teratogenicity</b> (risk of fetus malformation)	Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	Xylene isomers can affect the central nervous system by inhalation causing drowsiness or dizziness. They are a respiratory system irritant.
<b>STOT-repeated exposure</b>	<p>Prolonged or repeated over-exposure to p-xylene and ethylbenzene and noise can lead to hearing loss (cochlear impairment) according to rat inhalation studies.</p> <p>Prolonged or repeated over-exposure to xylenes can damage the liver, kidneys, and central nervous system.</p> <p>At high levels of exposures, ethylbenzene causes damage of the liver.</p>
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met. Although it contains more than 10% components of category 1 for aspiration hazard, the mixture has a kinematic viscosity of >20.5 mm <sup>2</sup> /s at 40 °C for the separation layer.

**Section 12: Ecological Information**

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<http://echa.europa.eu>), and other reliable sources.

Xylene isomers mixture is acutely toxic to the aquatic environment of category 2 with a minimal LC50 96 h of 2.5 mg/L for *Oncorhynchus mykiss* (rainbow trout).

Ethylbenzene is an acute category 2 environmental toxicant with minimal LC50 96 h of 4.2 mg/L for *Oncorhynchus mykiss* (rainbow trout); EC50 48 h of 2.9 mg/L and 7d NOEL of 0.91 mg/L *Daphnia magna* (water flea).

The 2-butanone oxamine component is not expected to be environmentally toxic with a minimal LC50 of 843 mg/L 96 h *Pimephales promelas* (fathead minnow); EC50 >500 mg/L 48 h *Daphnia magna* (water flea).

**Acute Ecotoxicity**

Available toxicity data does not meet classification thresholds.

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**4223****URETHANE CONFORMAL COATING****Chronic Ecotoxicity**

Category 3

Harmful to aquatic life with long lasting effects.

Avoid release to the environment.

**Biodegradability**

Readily biodegradable. Product is volatile and only slightly soluble in water. In water and soil, it is biodegradable under both aerobic and anaerobic condition. Photooxidation in the atmosphere are typically in the range of 0.5 to 1.5 days.

**Other Effects**

VOC (EPA, WHIMS, and Europe) = 57% (537 g/L)

\*VOC = Regulated Volatile Organic Compound

**Section 13: Disposal Information**

Dispose of contents in accordance with all local, regional, national, and international regulations.

**Section 14: Transport Information****Ground****Refer to TDG regulations** (Canadian Transportation of Dangerous Goods regulations);  
**USA DOT 49 CFR** (Parts 100 to 185) **Regulations.**Sizes 5 L and under  
**Limited Quantity**

Sizes greater than 5 L  
**UN number:** UN1307  
**Shipping Name:** XYLENES  
**Class:** 3  
**Packing Group:** III  
**Marine Pollutant:** No

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**4223****URETHANE CONFORMAL COATING****Air**

Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 5 L and under  
Limited Quantity  
Total net quantity  
per package 10 LSizes up to 60 L (passenger), 120 L (cargo)  
**UN number:** UN1307  
**Shipping Name:** XYLENES  
**Class:** 3  
**Packing Group:** III  
Marine Pollutant: No**Sea**

Refer to IMDG regulations.

Sizes 5 L and under  
Limited QuantityPacking instructions  
P001Sizes greater than 5 L  
**UN number:** UN1307  
**Shipping Name:** XYLENES  
**Class:** 3  
**Packing Group:** III  
Marine Pollutant: No

**Note:** Shipper must be appropriately trained and certified before involvement with the transport of dangerous goods.

**Section 15: Regulatory Information****Canada****Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)**

All hazardous ingredients are listed on the DSL/NDSL.

**Hazardous Products Act (R.S.C., 1985, c. H-3)**

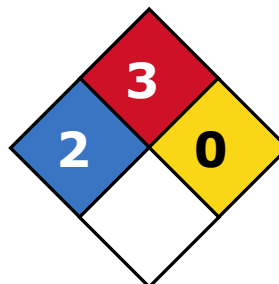
The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

**Export Control List (CEPA 1999, Schedule 3)**

This product contains Tributylstannyl benzoate (CAS No. 4342-36-3) at a concentration of 0.5%, which are subject to the terms of Annex III of the Rotterdam convention.

**4223****URETHANE CONFORMAL COATING****USA****Other Classifications****HMIS<sup>®</sup> RATING**

<b>HEALTH:</b>	<b>* 2</b>
<b>FLAMMABILITY:</b>	<b>3</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

**NFPA<sup>®</sup> 704 CODES***Approximate HMIS and NFPA Risk Ratings Legend:*

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

**CAA** (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product contains ethylbenzene and xylene that are listed as hazardous air pollutants.

**EPCRA** (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product contains ethylbenzene (CAS # 100-41-4; reportable quantity = 1 000 lb) and xylene (CAS # 1330-20-7, reportable quantity = 100 lb), which are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

**TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, June 06, 2014 revision, USA).

This product contains ethylbenzene (CAS # 100-41-4), which is listed as a carcinogen.

**Europe****RoHS** (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

**WEEE** (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

4223

## URETHANE CONFORMAL COATING

## Section 16: Other Information

<b>SDS Prepared by</b>	Regulatory Department
<b>Date</b>	14 January 2019
<b>Supersedes</b>	07 March 2017
<b>Reason for Changes:</b>	Modification to section 15 to add Export Control List chemical ingredient.

## References

- 1) ACGIH 2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).
- 2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

## Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
PEL	Permissible Exposure Limit
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TWA	Time Weighted Average
VOC	Volatile Organic Content

**Technical Queries** Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at [www.mgchemicals.com](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

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*Section continued on the next page*

**4223****URETHANE CONFORMAL COATING****Disclaimer**

This material safety data sheet is provided as an information resource only. *M.G. Chemicals, Ltd.* believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to query and verify any information seeming suspect where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, regional, national, and international regulations.