

843ER-B

SILVER COATED COPPER EPOXY CONDUCTIVE PAINT (PART B)

# **Safety Data Sheet**

**Section 1: Identification** 

# **Product Identifier and Other Means of Identification**

Product Identifier: 843ER-B

**Other Means of Identification:** Super Shield<sup>™</sup> Silver Coated Copper Epoxy Conductive Paint (Part B)

Related Part # 843ER-250ML, 843ER-800ML, 843ER-3.25L

# **Recommended Use and Restriction on Use**

Use: Electrically conductive epoxy coating hardener for use with resins

Uses Advised Against: Not available

# **Details of Manufacturer or Importer**

Manufacturer MG Chemicals 1210 Corporate Drive Burlington, Ontario L7L 5R6 CANADA

MG Chemicals (Head Office) 9347-193 Street Surrey, British Columbia V4N 4E7 CANADA

<b>A</b>	+1-800-340-0772	2	+1-905-331-1396
FAX	+1-800-340-0773	FAX	+1-905-331-2682
E-MAIL	support@mgchemicals.com	E-MAIL	info@mgchemicals.com
WEB	www.mgchemicals.com		

E-маіL (Competent Person): <u>sds@mgchemicals.com</u>

# **Emergency Phone Number**

**For hazardous material incidents ONLY** (leaks, spills, fires, exposures or accidents) USA or CANADA—Call Verisk 3E at **+1-866-519-4752** or **+1-760-476-3962** (Service access code: 335388)

**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

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# Section 2: Hazard(s) Identification

### **Classification of Hazardous Chemical**

# **GHS** Categories

Criteria		Category	Signal Word	Pictograms
Eye Damage		1	Danger	Corrosion
Flammable Liquid		2	Danger	Flame
Sensitization	Skin	1	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation
Hazardous to the Aquatic Enfironment	Chronic	2	none	Environment

*Note:* The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

# Label Elements

Signal Word	DANGER
Pictograms	Hazard Statements
	H225: Highly flammable liquid and vapour
	H318: Causes serious eye damage
	H315: Causes skin irritation H317: May cause an allergic skin reaction H336: May cause drowsiness or dizziness

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Pictograms	Hazard Statements
	H411: Toxic to aquatic life with long lasting effects
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, flames, and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof equipment.
P243	Take action to prevent static discharges.
P261	Avoid breathing mist, vapors, and spray.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed of the workplace.
P280	Wear protective gloves, eye protection, and face protection.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
Response	Precautionary Statements
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
P303 + P361 + P364 + P352	IN ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash skin with plenty of water.
P333 + P313	If skin irritation or rash occurs: 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.
P310	Immediately call POISON CENTER or doctor.
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.
P391	Collect spillage.

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Storage	Precautionary Statements
P403 + P233	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents in accordance to local, regional, national international regulations.

#### Hazards Not Otherwise Classified

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

# Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
78-93-3	butan-2-one <sup>a)</sup>	55%
68410-23-1	fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines $^{\mathrm{b})}$	34%
67-63-0	propan-2-ol <sup>c)</sup>	5%
71-36-3	1-butanol	4%
112-24-3	triethylenetetramine	1%

a) Also known as methyl ethyl ketone (MEK)

b) Also known generically as a polyamide polymer

c) Also known as isopropyl alcohol (IPA)



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Section 4: First-Aid Measures			
Exposure Condition	GHS Code/Symptoms/Precautionary Statements		
IF ON SKIN	P303 + P361 + P352, P333 + P313, P363		
Immediate Symptoms redness, irritation, dry skin, allergic contact dermat			
Response	Take off immediately all contaminated clothing. Wash skin with plenty of water.		
	If skin irritation or rash occurs: Get medical advice or attention.		
	Wash contaminated clothing before reuse.		
IF IN EYES	P305 + P351 + P338, P310		
Immediate Symptoms	redness, pain, eye damage		
Response	Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
	Immediately call POISON CENTER or doctor.		
IF INHALED	P304 + P340 + P312		
Immediate Symptoms	drowsiness, dizziness, cough, headaches, nausea, unconsciousness		
Response	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.		
IF SWALLOWED	P301 + P330, P331		
Immediate Symptoms	nausea, sore throat, diarrhea, drowsiness, dizziness		
Response	Rinse mouth. Do NOT induce vomiting.		

#### **Advice to Physicians**

In case of exposure to nitrogen oxides (NOx) combustion products or triethylenetetramine vapors during a fire, the symptoms may be delayed. For significant exposures, the exposed person should be kept under medical surveillance for 48 hours.



# Section 5: Fire-Fighting Measures

Extinguishing Media	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
	Use water spray to cool containers.
Specific Hazards	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> ) and nitrogen oxides (NO <sub>x</sub> ).
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

# Section 6: Accidental Release Measures

Personal Protection	See personal protection recommendations in Section 8.
Precautions for Response	Avoid breathing the mist, spray, and vapors. Remove or keep away all sources of extreme heat or open flames.
Environmental Precautions	Avoid releasing to the environment. Prevent spill from entering drains and waterways.
<b>Containment Methods</b>	Contain with inert absorbent (such as soil, sand, vermiculite).
Cleaning Methods	Collect liquid in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wash spill area with soap and water to remove the last traces of residue.
<b>Disposal Methods</b>	Dispose of spill waste according to Section 13.

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# Section 7: Handling and Storage

Keep away from heat, hot surfaces, sparks, flames, and other ignition sources. No Smoking. Keep container tightly closed. Ground and bond container and receiving equiptment. Use explosion- proof equiptment. Take action to prevent static discharges. Avoid breathing mist, vapors, and spray. Use only outdoors or in a well-
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proof equiptment. Take action to prevent static discharges. Avoid breathing mist, vapors, and spray. Use only outdoors or in a well-
ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Handling Wear protective gloves, eye protection, and face protection.
Take off contaminated clothing and wash it before reuse.
Wash hands thoroughly after handling.
Collect spillage.
<b>Storage</b> Store in a well-ventilated place. Keep cool.
Store locked up.

# 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)
butan-2-one	ACGIH	200 ppm	300 ppm
	U.S.A. OSHA PEL	200 ppm	Not established
	Canada AB	200 ppm	300 ppm
	Canada BC	50 ppm	100 ppm
	Canada ON	200 ppm	300 ppm
	Canada QC	50 ppm	100 ppm
propan-2-ol	ACGIH	200 ppm	400 ppm
	U.S.A. OSHA PEL	400 ppm	Not established
	Canada AB	200 ppm	400 ppm
	Canada BC	200 ppm	400 ppm
	Canada ON	200 ppm	400 ppm
	Canada QC	400 ppm	500 ppm

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# ISO 9001:2015 Quality Management System

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Chemical Name	Country/ Provinces	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
1-butanol	ACGIH	20 ppm	Not established
	U.S.A. OSHA PEL	100 ppm	Not established
	Canada AB	20 ppm	Not established
	Canada BC	15 ppm	30 ppm (Ceiling)
	Canada ON	20 ppm	Not established
	Canada QC	50 ppm (Ceiling)	Not established
triethylenetetramine	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	U.S.A (WEEL)	1 ppm	Not established
	Canada AB	Not established	Not established
	Canada BC	Not established	Not established
	Canada ON	0.5 mg/m <sup>3</sup> (Skin) <sup>a)</sup>	Not established
	Canada QC	Not established	Not established

*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 by RTECS database<sup>2</sup> and data 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.

a) Skin—can be absorbed through the skin.

#### **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.
	<b>RECOMMENDATION:</b> Ensure that glasses have side shields for lateral protection.
Skin Protection	For likely contacts, use of protective butyl rubber, fluorinated rubber, or other chemically resistant gloves.
	For incidental contacts, use nitrile, neoprene, PVC gloves, or other chemically resistant gloves.

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**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.

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 your respirator has filter cartridges appropriate for the ingredients listed in section 3 of this SDS, and that the respirator is fitted to the employee by a professional.

#### **General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

# **Section 9: Physical and Chemical Properties**

Physical State	Liquid	Lower Flammability Limit <sup>b)</sup>	1.8%
Appearance	Clear, amber	Upper Flammability Limit <sup>b)</sup>	10%
Odor	Ammonia-like	Vapor Pressure @20 °C	82 hPa [62 mmHg]
Odor Threshold	Not available	Vapor Density <sup>c)</sup>	≥2.1 (Air =1)
рН	Not available	Relative Density @25 °C	0.87
Freezing/Melting Point	Not available	Solubility in Water	Partially soluble
Initial Boiling Point <sup>a)</sup>	≥80 °C [≥176 °F]	Partition Coefficient n-octanol/water	Not available
Flash Point <sup>a)</sup>	≥-3 °C [≥26.6 °F]	Auto-ignition Temperature <sup>d)</sup>	≥343 °C [≥649 °F]
Evaporation Rate	Not available	Decomposition Temperature	Not available
Flammability	Not available	Viscosity @25 °C	11 mm²/s

a) Values based on butan-2-one component.

b) Lower and Upper Explosive Limits of mixture calculated using Le Chatelier principle and component LFL and UFL limits

c) Values based on propanol-2-ol component.

d) Values based on 1-butanol component.

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# Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Chemically stable at normal temperatures and pressures.
<b>Conditions to Avoid</b>	Ignition sources, excessive heat, and incompatible substances.
Incompatibilities	Oxidizing agents, strong acids
Polymerization	Will not occur
Decomposition	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

Eyes	Causes redness, pain and eye damage.
Skin	May cause redness, serious skin irritation, allergic contact dermatitis. Triethylenetetramine can be absorbed through skin leading to toxic effects.
	When heated, hot triethylenetetramine vapors may also result in itching of the face with skin redness (erythema) and swelling (edema).
Inhalation	May cause drowsiness, dizziness, cough, headaches, nausea, unconsciousness.
Ingestion	May cause nausea, sore throat, and diarrhea (see inhalation symptoms).
Chronic	Prolonged or repeated exposure may cause skin dryness, cracking, as well as defatting the skin.

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# Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
butan-2-one	2 737 mg/kg	6 480 mg/kg	23 500 mg/m <sup>3</sup>
	Rat	Rabbit	8 h Rat
polyamide polymer	>5 000 mg/kg <sup>a)</sup>	>5 000 mg/kg <sup>a)</sup>	Not available
propan-2-ol	3 600 mg/kg	12 800 mg/kg	16 000 ppm
	Rat	Rabbit	8 h Rat
1-butanol	790 mg/kg	3 400 mg/kg	Not
	Rat	Rabbit	available
triethylenetetramine	2 500 mg/kg	805 mg/kg	Not
	Rat	Rabbit	available

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

a) According to supplier safety data sheet.

# **Other Toxicological Effects**

Skin corrosion/irritation	Polyamide polymer, 1-butanol, and triethylenetetramine are known skin irritants.
Serious eye damage/irritation	Butan-2-one, bisphenol-A, 1-butanol, triethylenetetramine and propan-2-ol are known serious eye irritants.
Sensitization (allergic reactions)	The epoxy resin component (CAS# 25068-38-6) and triethylenetetramine may cause skin sensitization in humans.
Carcinogenicity (risk of cancer)	Based on available data, the classification criteria are not met.
<b>Mutagenicity</b> (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b> (risk to sex functions)	Based on available data, the classification criteria are not met.
<b>Teratogenicity</b> (risk of fetus malformation)	Based on available data, the classification criteria are not met.

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STOT-single exposure	Butan-2-one, 1-butanol, and propan-2-ol can affect the central nervous system by inhalation causing drowsiness or dizziness.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met. There is less than 10% category 1 components, and the kinematic viscosity is >20.5 mm <sup>2</sup> /s at 40 °C.

# 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 (<u>http://echa.europa.eu</u>), and other reliable sources.

Butan-1-ol is not classifiable as an environmental toxicant with minimal LC50 96 h of 1 840 mg/L for Pimephales promelas (fathead minnow); and LC40 48 h of 44 mg/L, EC50 72 h of 648 mg/L Daphnia magna (water flea).

The fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines (CAS# 68410-23-1) were classified as a chronic category 2 environmental toxicant (not readily biodegradable, LC50 range of 1–10 mg/L for fish; EC0 bacterial >10 and  $\leq$ 100 mg/L).

Literature values for the triethylenetetramine (CAS # 112-24-3) suggest an acute category 3 aquatic toxicity (LC50, IC50, and EC50 values of >100 mg/L for fish and between 10 and 100 mg/L for algae).

Based on available data, propan-2-ol and butan-2-one (MEK) do not meet the environmental toxicant classification with LC50 and EC50 >100 mg/L.

- Propan-2-ol has a minimal LC50 96 h of 9 640 mg/L for Pimephales promelas (fathead minnow); an EC50 24 h of 5 102 mg/L Daphnia magna (water flea); and an EC50 72 h of 2 000 mg/L Desmodesmus subspicatus (green algae).
- Butan-2-one has a minimal LC50 96 h of 400 mg/L for Pimephales promelas (fathead minnow); LC50 48 h of >520 mg/L and EC50 48 h of 13 500 mg/L for Daphnia magna (water flea).

# **Acute Ecotoxicity**

Category 2 Toxic to aquatic life

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# Chronic Ecotoxicity

Category 2

Toxic to aquatic life with long lasting effects

Avoid release to the environment. Collect spillage.

### Biodegradability

Not expected to be readily biodegradable.

# **Other Effects**

Actual VOC (Volatile Organic Compounds) content according to the US (EPA) and Canadian (CEPA) authorities.

VOC = 67% [573 g/L]

# 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 CFR 49 Regulations (Parts 100 to 185).

Sizes 5 L and under

Part B of 843ER-250ML, 843ER-800ML, 843ER-3.25L kits Limited Quantity

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#### Air

# Refer to ICAO-IATA Dangerous Goods Regulations. Sizes 1 L and under Part B of 843ER-250ML, 843ER-800ML kit Dart B of 843ER-3.25L kit Limited Quantity V V Of 843ER-3.25L kit UN number: UN1139 Shipping Name: COATING SoLUTION Class: 3 Packing Group: II Marine Pollutant: Yes

#### Sea

# Refer to IMDG regulations. Sizes 5 L and under Part B of 843ER-250ML, 843ER-800ML, 843ER-3.25L kits Limited Quantity Image: Contract of the second seco

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



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# Section 15: Regulatory Information

#### Canada

#### Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL.

### 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.

USA

#### **Other Classifications**

#### **HMIS® RATING**

HEALTH:	*	2
FLAMMABILITY:		3
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		

NFPA® 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 does not contain substances that are listed as hazardous air pollutants.

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

This product contains n-butanol (CAS# 67-63-0; reportable quantity = 5 000 lb), and propan-2-ol (CAS# 67-63-0), which are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

This product contains butan-2-one (CAS# 78-93-3, reportable quantity = 5 000 lb), which can be subject to the CERCLA reporting requirements.

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

All substances are TSCA listed.

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

This product does not contain any substances known to be listed in California.

#### 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.

# Section 16: Other Information

SDS Prepared by	MG Chemicals' Regulatory Department
Date of Review	14 April 2020
Supersedes	03 March 2020
Reason for Changes:	Update to the product name.

#### Reference

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®)

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#### Abbreviations

- ACGIH American Conference of Governmental Industrial Hygienists (USA)
- ECHA European Chemicals Agency
- EU European Union
- EC50 Half maximal effective concentration
- EL50 Half maximal effective loading
- IARC International Agency for Research on Cancer
- NOELR No observable effect loading ratio
- NTP National Toxicology Program
- GHS Globally Harmonized System of Classification of Labeling of Chemicals
- LC50 Lethal Concentration 50%
- LCLo Lowest published lethal concentration
- LD50 Lethal Dose 50%
- OEL Occupational Exposure Limit
- PEL Permissible Exposure Limit
- SDS Safety Data Sheet
- 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 <u>www.mgchemicals.com</u>.

Email: <a href="mailto:support@mgchemicals.com">support@mgchemicals.com</a>

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**Disclaimer** This 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.

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