SAI Global File #004008

Burlington, Ontario, Canada

8310A

CONFORMAL COATING REMOVER—GEL

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Identifier: 8310A

Other Means of Identification: Conformal Coating Remover—Gel

Related Part # 8310A-55ML, 8310A-225ML, 8310A-850ML, 8310A-3.6L

Recommended Use and Restriction on Use

Use: Coating stripper

Uses Advised Against: Not applicable

Details of Manufacturer or Importer

Manufacturer

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

= +1-800-340-0772 = +1-905-331-1396 FAX +1-800-340-0773 FAX +1-905-331-2682

E-MAIL <u>support@mgchemicals.com</u> **WEB** <u>www.mgchemicals.com</u>

E-MAIL (Competent Person): sds@mgchemicals.com

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
Flammable Liquid		2	Danger	Flame
Eye Irritation		2	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation

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

Signal Word	DANGER
Pictograms	Hazard Statements
	H225: Highly flammable liquid and vapor
	H319: Causes serious eye irritation
	H336: May cause drowsiness and dizziness

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Prevention	Precautionary Statements
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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, or spray.
P271	Use only outdoors or in well-ventilated area.
P233	Keep container tightly closed.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves, protective clothing, and eye protection.
Response	Precautionary Statements
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
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.
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.
Storage	Precautionary Statements
P403 + P235	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, and international regulations.

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Section 4: First-Aid Measures

ISO 9001:2015 Quality Management System

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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)	
67-64-1	acetone	48%	
646-06-0	1,3-dioxolane	34%	
109-87-5	dimethoxymethane	16%	

Exposure Condition	GHS Code: Precautionary Statement
IF ON SKIN (or hair)	P303 + P361 + P353
Immediate Symptoms	dry skin, redness
Response	Take off immediately all contaminated clothing. Rinse skin with water.
IF IN EYES	P305 + P351 + P338, P337 + P313
Immediate Symptoms	severe irritation, redness, pain, blurred vision
Response	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 or attention
IF INHALED	P304 + P340, P312
Immediate Symptoms	cough, sore throat, headache, drowsiness, dizziness, nausea
Response	Remove person to fresh air and keep comfortable for breathing.
	Call a POISON CENTRE or doctor if you feel unwell.

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IF SWALLOWED P301 + P330, P331

Immediate Symptoms nausea, weakness, abdominal pain, vomiting

Response Rinse mouth. Do NOT induce vomiting.

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.

Combustion Products Produces carbon oxides (CO, CO₂).

Fire-Fighter Wear self-contained breathing apparatus and full fire-fighting

turn-out gear.

Section 6: Accidental Release Measures

Personal Protection See personal protection equipment in Section 8.

Precautions for

Response

Avoid breathing the mist, spray, and vapors. Remove or keep away all sources of ignition or extreme heat.

away an sources of ignition of ex

Environmental Precautions

Prevent spill from entering drains and waterways.

Containment Contain with inert absorbent (such as soil, sand, vermiculite).

Cleaning Sprinkle inert absorbent compound onto spill, then sweep into the container. Use soap and water to remove the last traces of

the container. Use soap and water to remove the last traces of residue. Collect the liquid in a sealable, chemical-resistant

container.

RECOMMENDATION: Use a grounded stainless steel or carbon steel

container.

Disposal Methods Dispose of spill waste according to Section 13.

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Section 7: Handling and Storage

Prevention Keep out of reach of children.

Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

Ground and bond container and receiving equipment. Take action to prevent static discharges. Use explosion-proof equipment.

Keep container tightly closed.

Avoid breathing vapors, mist, or spray. Use only outdoors or in a

well-ventilated area.

Handling Wear protective gloves, protective clothing, and eye protection.

Wash hands thoroughly after handling.

Storage Store in a well-ventilated area. Keep cool.

Store locked up.

Section 8: Exposure Controls/Personal Protection

Substances with Occupational Exposure Limit Values

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
acetone	ACGIH	500 ppm	750 ppm
	U.S.A. OSHA PEL	1 000 ppm	Not established
	Canada AB	500 ppm	750 ppm
	Canada BC	250 ppm	500 ppm
	Canada ON	500 ppm	750 ppm
	Canada QC	750 ppm	1 000 ppm
1,3-dioxolane	ACGIH a)	20 ppm	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada AB	20 ppm	Not established
	Canada BC b)	20 ppm	Not established
	Canada ON	20 ppm	Not established
	Canada QC	Not established	Not established

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Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
dimethoxymethane	ACGIH c)	1 000 ppm	Not established
	U.S.A. OSHA PEL	1 000 ppm	3 100 ppm
	Canada AB	1 000 ppm	3 100 ppm
	Canada BC	1 000 ppm	1 250 ppm
	Canada ON	1 000 ppm	Not established
	Canada QC	1 000 ppm	3 100 ppm

Note: The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits 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) Hematologic effect
- b) Adverse reproductive effect
- c) Eye irritation; CNS impairment

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 likely contacts, use of protective butyl rubber, fluorinated

rubber, or other chemically resistant gloves.

For incidental contacts, use neoprene, natural latex rubber, or

other chemically resistant gloves.

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Respiratory Protection

For over-exposures up to $10 \times OEL$ of mist, vapors, or 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 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

Physical State	Liquid	Lower Flammability Limit ^{c)}	2.8%
Appearance	Colorless	Upper Flammability Limit ^{c)}	16.6%
Odor	Ketone-like	Vapor Pressure @20 °C b)	221 hPa [166 mmHg]
Odor Threshold	Not available	Vapor Density	>2.01 (Air = 1)
рH	Not available	Relative Density @25°C	0.88
Freezing/Melting	Not	Solubility in	Miscible
Point	available	Water	
Initial Boiling	42 °C	Partition Coefficient	Not
Point	[107 °F]	n-octanol/water	available
Flash Point a)	-30 °C	Auto-ignition	250 °C
	[-22 °F]	Temperature	[482 °F]
Evaporation	Not	Decomposition	Not
Rate	available	Temperature	available
Flammability	Highly	Viscosity	Not
	flammable	@40 °C	available

- a) Closed cup value
- b) Calculated using Raoult's Law
- c) Calculated using LeChatelier Principal

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Section 10: Stability and Reactivity

Reactivity Acetone reacts exothermically with phosphorous oxychloride,

which can lead to an explosion.

Chemical Stability

Chemically stable at normal temperatures and pressures

Conditions to Avoid Avoid flames, sparks, other ignition sources and incompatible

substances.

Incompatibilities Phosphorous oxychloride, strong oxidizing agents, strong bases,

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, serious eye irritation, pain, or blurred vision.

Skin May cause dry skin or redness.

Inhalation May cause cough, sore throat, headache, drowsiness, dizziness,

and/or confusion. Severe overexposure may lead to

unconsciousn

Ingestion May cause nausea, weakness, abdominal pain, or vomiting.

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
acetone	5 800 mg/kg	20 mL/kg	16 000 ppm
	Rat	Rabbit ^{a)}	4 h Rat ^{a)}
1,3-dioxolane	5 200 mg/kg	15 000 mg/kg	20 650 mg/m³
	Rat	Rat	4 h Rat
dimethoxymethane	6 423 mg/kg	Not	57 mg/L
	Rat	available	7 h Rat

Note: Toxicity data from ECHA was consulted. The data from supplier SDSs' were also consulted.

a) Supplier safety data sheet

Other Toxicological Effects

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Acetone and 1,3-dioxolane are known serious eye irritants.
Sensitization (allergic reactions)	Based on available data, the classification criteria are not met.
Carcinogenicity (risk of cancer)	None of the ingredients are 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.
Teratogenicity (risk of fetus malformation)	Based on available data, the classification criteria are not met.
STOT-single exposure	Acetone 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 are no category 1 components.

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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.

Acetone does not meet classification criteria for aquatic environmental toxicants with LC50 and EC50 of >100 mg/L.

• Acetone has a minimal LC50 96 h of 5 540 mg/L for Oncorhynchus mykiss (rainbow trout) and an EC50 48 h of 13 500 mg/L for Daphnia magna (water flea).

The 1,3-dioxolane and dimethoxymethane ingredients are not classifiable as an environmental toxicant.

Acute Ecotoxicity

Available toxicity data does not meet classification thresholds.

Chronic Ecotoxicity

Available toxicity data does not meet classification thresholds.

Biodegradability

Not available

Other Effects

Volatile Organic Compound (VOC) content = 50% [439 g/L] by VOC-Exemption

Section 13: Disposal Information

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



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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 1 L and under 8310A-55ML, 8310A-850ML

Limited Quantity



Sizes greater than 1 L 8310A-3.6L

UN number: UN1993

Shipping Name: FLAMMABLE LIQUID,

N.O.S. (acetone, 1,3-dioxolane)

Class: 3

Packing Group: II Marine Pollutant: No



Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 1 L and under 8310A-55ML

Limited Quantity



Sizes greater than 1 L 8310A-850ML, 8310A-3.6L

UN number: UN1993

Shipping Name: FLAMMABLE LIQUID,

N.O.S. (acetone, 1,3-dioxolane)

Class: 3

Packing Group: II Marine Pollutant: No



Sea

Refer to IMDG regulations.

Sizes 1 L and under 8310A-55ML, 8310A-850ML

Limited Quantity



Sizes greater than 1 L

8310A-3.6L

UN number: UN1993

Shipping Name: FLAMMABLE LIQUID,

N.O.S. (acetone, 1,3-dioxolane)

Class: 3

Packing Group: II Marine Pollutant: No



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 acetone (CAS# 67-64-1), which is subject to the CERCLA reporting requirements at the 5 000 lb (2 268 kg) threshold.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

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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 Revision 15 December 2023 06 March 2020 **Supersedes**

Update to identification name. **Reason for Changes:**

Reference

1) ACGIH 2023 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 (2023).

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Abbreviations

ACGIH American Conference of Governmental Industrial Hygienists (USA)

ECHA European Chemicals Agency

ΕU 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 National Toxicology Program NTP

Globally Harmonized System of Classification of Labeling of Chemicals GHS

LC50 Lethal Concentration 50%

LCLo Lowest published lethal concentration

Lethal Dose 50% LD50

Occupational Exposure Limit OEL Permissible Exposure Limit PEL

SDS Safety Data Sheet

STEL Short-Term Exposure Limit

Lowest published toxic concentration TCLo

Time Weighted Average TWA 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.

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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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