

SAI Global File #004008 Burlington, Ontario, Canada

OVERCOAT PEN-BLACK

419D-P-BK

# Safety Data Sheet

#### Section 1: Identification

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

**Product Identifier:** Overcoat Pen—Black

Other Means of Identification: Stylo de Vernis d'Épargne—Noir

Related Part # 419D-P-BK

#### **Recommended Use and Restriction on Use**

**Use:** Protective coating for printed circuit boards

Uses Advised Against: Not available

#### **Details of Manufacturer or Importer**

#### Manufacturer

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

 #
 +1-800-340-0772
 #
 +1-905-331-1396

 FAX
 +1-800-340-0773
 FAX
 +1-905-331-2682

 E-MAIL
 support@mgchemicals.com
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 info@mgchemicals.com

 WEB
 www.mgchemicals.com

E-MAIL (Competent Person): <a href="mailto:sds@mqchemicals.com">sds@mqchemicals.com</a>

#### **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
Skin Sensitization		1	Warning	Exclamation
Eye Irritation		2	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation
Hazardous to the Aquatic Environment	Acute	3	none	none

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
	H317: May cause and allergic skin reaction
	H319: Causes serious eye irritation
	H336: May cause drowsiness or dizziness
No Symbol Mandated	H402: Harmful to aquatic life
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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.
P261, P271	Avoid breathing vapors. Use only outdoors or in a well-ventilated area.
P233	Keep container tightly closed.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves and eye 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 + P364 + P352	IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water.
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.
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.
Storage	Precautionary Statements
P403 + P235	Store in well-ventilated place. Keep cool.
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents and container in accordance to local, regional, national, and international regulations.

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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)
123-86-4	n-butyl acetate	54%
78-93-3	butan-2-one <sup>a)</sup>	12%
108-65-6	1-methoxy-2-propanol acetate	4%
1333-86-4	carbon black	3%
8052-41-3	Stoddard solvent	2%
80-62-6	methyl methacrylate	0.1%
97-88-1	n-butyl methacrylate	0.1%

a) Also known as methyl ethyl ketone (MEK)

# **Section 4: First-Aid Measures**

Exposure Condition	GHS Code/Symptoms/Precautionary Statements		
IF ON SKIN (or hair)	P303 + P361 + P352, P333 + P313, P363		
Immediate Symptoms	redness, mild irritation, dry skin		
Response	Take off immediately all contaminated clothing. Wash with plenty of water or shower.		
	If skin irritation or rash occurs: Get medical advice or attention.		
	Wash contaminated clothing before reuse.		
IF INHALED	P304 + P340, P312		
Immediate Symptoms	dizziness, drowsiness, cough, sore throat, headaches, nausea		
Response	Remove person to fresh air and keep comfortable for breathing.		
	If you feel unwell: Call a doctor.		

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IF IN EYES	P305 + P351 + P338, P337 + P313
Immediate Symptoms	redness, severe irritation, pain
Response	Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	If eye irritation persists: Get medical advice or attention.
IF SWALLOWED	P301 + P330, P331
Immediate Symptoms	low toxicity: nausea, sore throat, diarrhea, drowsiness, dizziness, vomiting
Response	Rinse mouth. Do NOT induce vomiting.

## **Section 5: Fire-Fighting Measures**

**Extinguishing Media** Use dry chemical, carbon dioxide, chemical foam, or water

spray to extinguish.

**Specific Hazards** The liquid may float on water and ignite.

The vapors are heavier than air and may accumulate in lowlying 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, CO<sub>2</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

see personal protection recommendations in Section 6.

Avoid breathing the 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.

**Containment** Not applicable

**Cleaning** 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.

**Disposal** 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.

Keep container tightly closed. Avoid breathing vapors. Use only

outdoors or in a well-ventilated area.

**Handling** Wear protective gloves and eye protection.

Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the

workplace.

Wash hands thoroughly after handling.

Avoid release to the environment.

**Storage** Store in well-ventilated place. 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)
n-butyl acetate	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON	150 ppm 150 ppm 150 ppm 20 ppm 150 ppm	Not established Not established 200 ppm 200 ppm Not established
	Canada QC	150 ppm	200 ppm
butan-2-one	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	200 ppm 200 ppm 200 ppm 50 ppm 200 ppm 150 ppm	125 ppm 300 ppm 300 ppm 100 ppm 300 ppm 300 ppm

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Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
1-methoxy-2-propanol	ACGIH	Not established	Not established
acetate	U.S.A. OSHA PEL	50 ppm	Not established
	Canada AB	Not established	Not established
	Canada BC	50 ppm	75 ppm
	Canada ON	50 ppm	Not established
	Canada QC	Not established	Not established
carbon black <sup>a)</sup>	ACGIH	3.5 mg/m <sup>3</sup>	Not established
	U.S.A. OSHA PEL	3.5 mg/m <sup>3</sup>	Not established
	Canada AB	3.5 mg/m <sup>3</sup>	Not established
	Canada BC	3 mg/m <sup>3</sup>	Not established
	Canada ON	3.5 mg/m <sup>3</sup>	Not established
	Canada QC	3.5 mg/m <sup>3</sup>	Not established
Stoddard solvent	ACGIH	100 ppm	Not established
	U.S.A. OSHA PEL	500 ppm	Not established
	Canada AB	100 ppm	Not established
	Canada BC	290 mg/m <sup>3</sup>	580 mg/m <sup>3</sup>
	Canada ON	100 ppm	Not established
	Canada QC	100 ppm	Not established
methyl methacrylate	ACGIH	50 ppm (S)	100 ppm
	U.S.A. OSHA PEL	100 ppm	Not established
	Canada AB	50 ppm	100 ppm
	Canada BC	50 ppm (S)	100 ppm
	Canada ON	50 ppm	100 ppm
	Canada QC	100 ppm	Not established
n-butyl methacrylate	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada AB	Not established	Not established
	Canada BC	50 ppm	Not established
	Canada ON	Not established	Not established
	Canada QC	Not established	Not established

Note: The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS database<sup>2</sup> 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.

a) Respirable airborne particles

S-Sensitizer

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#### **Engineering Controls**

**Ventilation** Keep airborne concentrations below the occupational exposure

limits (OEL).

Because the carbon black is bound to the liquid mixture, it does not present an airborne hazard under normal use. Ensure adequate ventilation if the product is mechanically misted or

aerosolized.

**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, neoprene,

or other chemically resistant gloves.

For incidental contacts, use nitrile, polyvinyl alcohol (PVA) or

other chemically resistant gloves.

**Respiratory Protection** For over-exposures up to 10 x OEL of vapors, 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.



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

Physical State	Liquid	Lower Flammability Limit <sup>c)</sup>	2.5%
Appearance	Black	Upper Flammability Limit <sup>c)</sup>	9.2%
Odor	Fruity	Vapor Pressure @20 °C °)	40 hPa [31 mmHg]
Odor Threshold	0.007 ppm	Vapor Density	>2.5 (Air =1)
pH	Not available	Relative Density @25°C	0.93
Freezing/Melting Point	Not available	Solubility in Water	Slightly soluble
Initial Boiling Point <sup>a)</sup>	≥80 °C [≥176 °F]	Partition Coefficient n-octanol/water	Not available
Flash Point a,b)	-3 °C [26.6 °F]	Auto-ignition Temperature <sup>d)</sup>	≥315 °C [≥599 °F]
Evaporation Rate	<1 (ButAc = 1)	Decomposition Temperature	Not available
Flammability	Highly Flammable	Viscosity @25 °C	110 mm <sup>2</sup> /s

- a) Values based on butan-2-one component.
- b) Pensky-Martens closed cup
- c) Calculated based on components.
- d) Values based on 1-methoxy-2-propanol acetate, which is the component with the lowest auto-ignition value.

#### **Section 10: Stability and Reactivity**

Reactivity	Not available
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**Chemical** Che **Stability** 

Chemically stable at normal temperatures and pressures.

**Conditions to** 

Ignition sources, excessive heat, and incompatible substances.

Avoid

**Incompatibilities** Strong oxidizing agents, strong acids

Polymerization Will not occur

**Decomposition** Will not decompose under normal conditions. For thermal

decomposition, see combustion products in Section 5.

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# **Section 11: Toxicological Information**

## **Summary of Effects and Symptoms by Routes of Exposure**

**Eyes** May cause redness, severe irritation, or pain.

**Skin** May cause skin redness, mild irritation, and dry skin.

**Inhalation** May cause dizziness, drowsiness, cough, sore throat, headaches,

and nausea.

**Ingestion** May cause nausea, sore throat, diarrhea, or vomiting (see

inhalation symptoms).

**Chronic** Prolonged or repeated exposure may cause skin dryness,

cracking, as well as defatting the skin. May also cause skin

allergies.

# **Acute Toxicity (Lethal Exposure Concentrations)**

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
n-butyl acetate	>10 768 mg/kg	>17 600 mg/kg	390 ppm
	Rat	Rabbit	4 h Rat
butan-2-one	2 737 mg/kg	6 480 mg/kg	23 500 mg/m³
	Rat	Rabbit	8 h Rat
1-methoxy-2-propanol acetate	8 532 mg/kg	>5 g/kg	Not
	Rat	Rabbit	available
carbon black	>15 g/kg	>3 g/kg	Not
	Rat	Rabbit	available
Stoddard solvent	>5 000 mg/kg	>3 000 mg/kg	14 000 ppm
	Rat	Rat	8 h Rat
methyl methacrylate	7 872 mg/kg	>5 000 mg/kg	78 000 mg/m³
	Rat	Rabbit	4 h Rat
n-butyl methacrylate	16 000 mg/kg	113 000 µL/kg	29.8 mg/L
	Rat	Rabbit	4 h Rat

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

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#### Other Toxicological Effects

Skin

corrosion/irritation

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

Serious eye damage/irritation Butan-2-one is a known serious eye irritant.

Sensitization (allergic reactions)

The methyl methacrylate and n-butyl methacrylate may cause skin sensitization according to animal studies.

Carcinogenicity (risk of cancer)

The carbon black [1333-86-4] is possibly carcinogenic by airborne routes of exposures under WHMIS.

Because the carbon black is bound in the liquid mixture, it is not available as an airborne hazard (dust) under normal use.

Carbon Black [1333-86-4]

IARC Group 2B: Possibly carcinogenic to humans ACGIH A4: Not classified as a human carcinogen

CA Prop 65: Listed as a carcinogen (airborne, as unbound particles of respirable size)

NTP: Not listed

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

The n-butyl acetate, butan-2-one, Stoddard solvent, methyl methacrylate, and n-butyl methacrylate components 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. Contains less than 10% components of category 1, and the mixture has a kinematic viscosity of >20.5 mm<sup>2</sup>/s at 40 °C.

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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 (<a href="http://echa.europa.eu">http://echa.europa.eu</a>), and other reliable sources.

The n-butyl acetate ingredient is hazardous to the aquatic environment with an acute category 3 environmental classification. It is biodegradable, with minimal LC50 of 18 mg/L for Pimephales promelas (fathead minnow).

Based on available data, 2-butanone (MEK) ingredient is not classified as an environmental hazard according to GHS criteria.

The 1-methoxy-2-propanol acetate component is hazardous to the aquatic environment with an acute category 3 classification with minimal LC50 96 h of ≥100 mg/L for Salmo gairdneri.

Based on available data, carbon black is not classified as an environmental hazard according to GHS criteria.

The Stoddard solvent is hazardous to the aquatic environment with a chronic category 2 classification.

## **Acute Ecotoxicity**

Category 3

Harmful to aquatic life

Avoid release to the environment.

#### **Chronic Ecotoxicity**

Available toxicity data does not meet classification thresholds.

#### **Biodegradability**

Expected to be biodegradable. The volatile solvent constituents will oxidize rapidly in air by photochemical reaction.

#### **Other Effects**

Volatile Organic Compounds (VOC) = 73% [678 g/L]

#### **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 30 mL and under

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**Excepted Quantity** Code **E2** 



#### Air

## Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 30 mL and under

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**Excepted Quantity** 

Code **E2** 

On air waybill, write:

"Dangerous Goods in Excepted Quantities".



UN number: UN1263 **Shipping Name: PAINT** 

Class: 3

Packing Group: II Marine Pollutant: No

#### Sea

#### Refer to IMDG regulations.

Sizes 30 mL and under

419D-P-BK

**Excepted Quantity** 

Code **E2** 

In transport document,

write:

"Dangerous Goods in

Excepted Quantities".



UN number: UN1263 Shipping Name: PAINT

Class: 3

**Packing Group**: II Marine Pollutant: No

Note: Shipper must be appropriately trained and certified 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/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.

#### **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-butyl acetate (CAS# 123-86-4) and butan-2-one (CAS# 78-93-3), which can be subject to the CERCLA reporting requirements at a threshold of 5 000 lb (2 268 kg).

This product contains methyl methacrylate (CAS# 80-62-6), which can be subject to the CERCLA reporting requirements at a threshold of 1 000 lb (454 kg).

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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)

This product contains carbon black, but it is bound and exposures during normal conditions of uses are below the Safe Harbor Threshold.

#### 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**Regulatory Department
26 November 2020
Supersedes
07 November 2018

**Reason for Changes:** Update to the emergency phone number information and

general revions.

#### 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®), MDL Information Systems, Inc.

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#### **Abbreviations**

ACGIH American Conference of Governmental Industrial Hygienists (USA) EC50 Half maximal effective concentration EL50 Half maximal effective loading NOELR No observable effect loading ratio Globally Harmonized System of Classification of Labeling of Chemicals GHS LC50 Lethal Concentration 50% LCLo Lowest published lethal concentration Lethal Dose 50% LD50 Permissible Exposure Limit PFL STEL Short-Term Exposure Limit TCLo Lowest published toxic concentration

TWA Time Weighted Average Volatile Organic Content VOC

**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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L7L 5R6 V4N 4E7

**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.