

Safety Data Sheet

according to WHMIS 2023 and HCS 2024

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Date of issue 04/03/2025

Version number 5.00

Revision: 03/31/2025

1 Identification

· Product identifier

· Trade name: 844AR

- Other Means of Identification: Acrylic ESD Coating
- Related Part Number: 844AR-Aerosol, 844AR-340G

· Application of the substance / the mixture Static protection for electronic components

· Uses advised against Not available

· Details of the supplier of the safety data sheet

Manufacturer/Supplier:

MG Chemicals (Head Office)
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA
+(1) 800-340-0772
+(1) 905-331-1396
info@mgchemicals.com

· Information department: sds@mgchemicals.com

· Emergency telephone 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

2 Hazard identification

· Classification of the substance or mixture

Aerosols, Section 2.3.1 – Category 2

H223-H229 Flammable aerosol. Pressurized container:
may burst if heated.

Eye damage/irritation – Category 1

H318 Causes serious eye damage.

Carcinogenicity – Category 2

H351 Suspected of causing cancer. Route of
exposure: Inhalation.

Specific target organ toxicity (single exposure) – Category 3

H336 May cause drowsiness or dizziness.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS02

GHS05

GHS07

GHS08

· Signal word Danger

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· **Hazard-determining components of labeling:**

acetone
2-methoxy-1-methylethyl acetate
butan-1-ol
titanium dioxide

· **Hazard statements**

H223-H229 Flammable aerosol. Pressurized container: may burst if heated.
H318 Causes serious eye damage.
H351 Suspected of causing cancer. Route of exposure: Inhalation.
H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P102 Keep out of reach of children.
P201 Obtain special instructions before use.
P202 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.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing mist, vapors or spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing, and eye protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 a POISON CENTER/doctor.
P308+P313 IF exposed or concerned: Get medical advice.
P403 Store in a well-ventilated place.
P405 Store locked up.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents and container in accordance with local, regional, and national regulations.

· **Other hazards**

Warning! May displace oxygen and cause rapid suffocation.
Repeated exposure may cause skin dryness or cracking.

3 Composition/Information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

67-64-1	acetone	37% w/w
616-38-6	dimethyl carbonate	22% w/w
74-98-6	propane	13% w/w
75-28-5	isobutane	7% w/w
108-65-6	2-methoxy-1-methylethyl acetate	4% w/w

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71-36-3	butan-1-ol	3% w/w
13463-67-7	titanium dioxide	2% w/w

4 First-aid measures

- **Description of first aid measures**

- **After inhalation:**

- Remove person to fresh air and keep comfortable for breathing.
 - If feeling unwell: Call a POISON CENTRE or doctor.

- **After skin contact:**

- Wash with plenty of water or shower.
 - Take off contaminated clothing and wash it before reuse.

- **After eye contact:**

- Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - Immediately call a POISON CENTER or doctor.

- **After swallowing:**

- Rinse mouth.
 - Do NOT induce vomiting.
 - If symptoms persist consult doctor.

- **Information for doctor:** Treat symptomatically

- **Most important symptoms and effects, both acute and delayed**

See section 11 for additional information.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 - Use water spray to cool containers.

- **Special hazards arising from the substance or mixture**

Prevent fire-fighting wash from entering waterway or sewer system.

Aerosols containers may erupt with force at temperatures above 50 °C [122 °F].

Vapors are heavier than air. Vapors may travel to sources of ignition near the ground. They can cause flash fire or ignite explosively.

- **Hazardous combustion products:**

- Carbon Oxides (COx)
 - other toxic fumes

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- **Advice for firefighters**
 - **Protective equipment:** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Remove or keep away all sources of extreme heat or open flames.
Avoid breathing mist, spray, or vapors.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Not applicable
- **Reference to other sections**

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling**

Keep out of reach of children.
Avoid breathing mist, spray, or vapors.
Use only outdoors or in a well-ventilated area.
Obtain, read and follow all safety instructions before use.
Do not pierce or burn, even after use.
- **Information about protection against explosions and fires:**

Do not spray on a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurized containers.
Keep in a dry and clean area, away from incompatible substances
Store in a well-ventilated place. Keep cool.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:**

Keep receptacle tightly sealed.
Protect from heat and direct sunlight.
Do not expose to temperatures exceeding 50 °C [122 °F].
Store locked up.

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· Specific end use(s) See section 1.2

8 Exposure controls/ Personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

67-64-1 acetone	
EL (Canada)	STEL: 500 ppm TWA: 250 ppm
EV (Canada)	STEL: 750 ppm TWA: 500 ppm
PEL (USA)	TWA: 2400 mg/m ³ , 1000 ppm
REL (USA)	TWA: 590 mg/m ³ , 250 ppm
TLV (USA)	STEL: 1187 mg/m ³ , 500 ppm TWA: 594 mg/m ³ , 250 ppm A4, BEI
74-98-6 propane	
EL (Canada)	Simple asphyxiant; EX
EV (Canada)	TWA: 1,000 ppm revoked as of 01/01/18
PEL (USA)	TWA: 1800 mg/m ³ , 1000 ppm
REL (USA)	TWA: 1800 mg/m ³ , 1000 ppm
TLV (USA)	see Appendix F Minimal oxygen content (D, EX)
75-28-5 isobutane	
EL (Canada)	STEL: 1000 ppm EX
EV (Canada)	TWA: 800 ppm revoked as of 01/01/18
TLV (USA)	STEL: 2370 mg/m ³ , 1000 ppm (EX)
108-65-6 2-methoxy-1-methylethyl acetate	
EL (Canada)	STEL: 75 ppm TWA: 50 ppm
EV (Canada)	TWA: 270 mg/m ³ , 50 ppm
WEEL (USA)	TWA: 50 ppm
71-36-3 butan-1-ol	
EL (Canada)	TWA: 15 ppm Ceiling: 30 ppm
EV (Canada)	TWA: 20 ppm
PEL (USA)	TWA: 300 mg/m ³ , 100 ppm

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REL (USA)	Ceiling: 150 mg/m ³ , 50 ppm Skin
TLV (USA)	TWA: 61 mg/m ³ , 20 ppm
· Ingredients with biological limit values:	
67-64-1 acetone	
BEI (USA)	25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)

· **Additional information:**

The lists that were valid during the creation were used as basis.
Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.

· **Exposure controls**

· **Appropriate engineering controls** Keep airborne concentrations below exposure limits.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Advice should be sought from respiratory protection specialists.
If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

· **Protection of hands:**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves: EN374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Safety glasses or tightly sealed goggles: EN 166

9 Physical and chemical properties

· Information on basic physical and chemical properties

· Physical state	Aerosol
· Form:	Liquid, in aerosol format.
· Color:	Whitish
· Odor:	Ether-like
· Odor threshold:	Not determined.
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	≥56 °C (≥132.8 °F)
· Flammability:	Flammable.
· Explosion limits:	
· Lower:	1.7 Vol %
· Upper:	13 Vol %
· Flash point:	-18 °C (-0.4 °F)
· Auto igniting:	345 °C (653 °F)
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic at 20 °C (68 °F):	<20.5 mm ² /s
· Dynamic:	Not determined.
· Solubility in / Miscibility with	
· Water:	Partly miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure at 20 °C (68 °F):	8,300 hPa (6.200 mm Hg)
· Vapor pressure at 50 °C (122 °F):	800 hPa (600 mm Hg)
· Relative density at 25 °C (77 °F):	0.95
· Vapor density (air=1):	≥1.5 (Air = 1)
· Particle characteristics	Not applicable.

· Other information

· Important information on protection of health and environment, and on safety.

· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Solvent content:	
· Organic solvents:	57.00 %

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· Evaporation rate	Not applicable.
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10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Chemically stable at normal temperatures and pressures.
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Temperatures above 50 °C, open flames, and incompatible substances
- **Incompatible materials:**
 - Strong acids
 - Strong bases
 - Strong oxidizing agents
 - Phosphorous oxychloride
 - Potassium tert-butoxide
- **Hazardous decomposition products:**
 - No dangerous decomposition products known.
 - Hazardous combustion products: see section 5.

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
ATE (Acute Toxicity Estimate)		
Oral	LD50	21,067 mg/kg (rat)
67-64-1 acetone		
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	>7,426 mg/kg (rabbit)
Inhalative	LC50/ 3 h	132 mg/L (rat)
616-38-6 dimethyl carbonate		
Oral	LD50	13,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
74-98-6 propane		
Inhalative	LC50/4 h	>800,000 ppm (rat)
75-28-5 isobutane		
Inhalative	LC50/4 h	>800,000 ppm (rat)

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108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8,532 mg/kg (rat)
Dermal	LD50	5 g/kg (rabbit)
Inhalative	LC50/4 h	35.7 mg/L (rat)
71-36-3 butan-1-ol		
Oral	LD50	790 mg/kg (rat)
Dermal	LD50	3,400 mg/kg (rabbit)
Inhalative	LC50/4 h	8,000 mg/L (rat)
13463-67-7 titanium dioxide		
Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.82 mg/L (rat)

- **Primary irritant effect:**
 - **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Suspected of causing cancer. Route of exposure: Inhalation.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **Specific target organ toxicity - single exposure** May cause drowsiness or dizziness.
- **Specific target organ toxicity - repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Summary of effects and symptoms by route of exposure**
 - **Eyes:**
 - eye damage, pain
 - blurred vision
 - redness, serious irritation
 - **Skin:**
 - dry skin
 - redness, may cause mild irritation
 - **Inhalation:**
 - dizziness or drowsiness
 - cough
 - sore throat
 - headache
 - Severe overexposure may lead to unconsciousness.
 - **Swallowed:**
 - nausea, vomiting
 - abdominal pain
- **Delayed and immediate effects as well as chronic effects from short and long-term exposure** Prolonged or repeated exposure may defat skin and cause skin dryness and cracking, and local redness and discomfort.
- **Additional toxicological information:** The product shows the following dangers according to internally approved calculation methods for preparations:

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Irritant

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· Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
13463-67-7	titanium dioxide	2B
· NTP (National Toxicology Program)		
None of the ingredients is listed.		

12 Ecological information

· Toxicity

· Aquatic toxicity:		
67-64-1 acetone		
EC50/ 48 h	13,500 mg/L (daphnia)	
LC50 96h	5,540 mg/L (trout)	

- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

· Waste treatment methods

- **Recommendation:** This material and its container must be disposed of as hazardous waste.

· Uncleaned packagings:

- **Recommendation:**
Containers may still present a chemical hazard/ danger when empty.
Dispose of contents in accordance with all local, regional, national, and international regulations.
Where possible retain label warnings and SDS and observe all notices pertaining to the product.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

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* 14 Transport information

· UN-Number	
· DOT/TDG, IMDG, IATA	UN1950
· UN proper shipping name	
· DOT/TDG, IATA	Aerosols, flammable
· IMDG	AEROSOLS
· Transport hazard class(es)	
· DOT/TDG (Transport dangerous goods):	
	
· Class	2.1 Gases
· Label	2.1
· IMDG, IATA	
	
· Class	2.1 Gases
· Label	2.1
· Packing group	
· DOT/TDG, IMDG, IATA	Not applicable
· Environmental hazards:	Product contains environmentally hazardous substances: Silver (Powder)
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
 Limited Quantity	
844AR-340G	
· DOT/TDG	
· Quantity limitations	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg
· IMDG	
· Limited quantities (LQ)	1L

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· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Special precautions for user	Not applicable.
· Hazard identification number (Kemler code):	-
· EMS Number:	F-D,S-U
· Stowage Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

* 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
 - OSHA Hazard Communication Standard (29 CFR Part 1900)
The safety data sheet and label comply with HCS 2024.
 - Hazardous Products Act (R.S.C., 1985, c. H-3)
The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2023.
 - Sara

· Section 355 (extremely hazardous substances):
None of the ingredients is listed.
· Section 313 (Specific toxic chemical listings):
71-36-3 butan-1-ol
· TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.
· Hazardous Air Pollutants
None of the ingredients is listed.

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· Proposition 65

· Chemicals known to cause cancer:		
13463-67-7	titanium dioxide	
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
· Chemicals known to cause developmental toxicity:		
None of the ingredients is listed.		

· Carcinogenic categories

· TLV (Threshold Limit Value)		
67-64-1	acetone	A4
13463-67-7	titanium dioxide	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
13463-67-7	titanium dioxide	

· Canadian substance listings:

· Canadian Domestic Substances List (DSL)		
All ingredients are listed.		
· Canadian Non-Domestic Substances List (NDSL)		
None of the ingredients is listed.		
· Canadian Ingredient Disclosure list (limit 0.1%)		
None of the ingredients is listed.		
· Canadian Ingredient Disclosure list (limit 1%)		
67-64-1	acetone	
71-36-3	butan-1-ol	

· HMIS-ratings (scale 0 - 4)

Health = * 2

Fire = 3

Reactivity = 0

· 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.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Regulatory department
- **Contact:** sds@mgchemicals.com
- **Version number of previous version:** 4.00
- **Date of preparation** 04/03/2025
- **Abbreviations and acronyms:**
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - NIOSH: National Institute for Occupational Safety
- *** Data compared to the previous version altered.**

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