



# Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing
	Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).	

## Section 1. Chemical Product and Company Identification

Product Name/ Trade name	<b>MDI-8643 Reducer</b>	Code	MDI8643
Supplier	Antoni Coatings Inc. 2910 Marleau Avenue P.O. Box 1236 Cornwall, ON K6H 5V3 (613) 936-9050	CAS #	Mixture.
Synonym	Not available.	DSL	CEPA DSL: MIBK; Glycol Ether PM Acetate
Chemical Name	Not applicable.	CI#	Not available.
Chemical Family	Not applicable.	Validation Date	11/8/2007
Chemical Formula	Not applicable.	Print Date	3/25/2008
Manufacturer	Antoni Coatings Inc. 2910 Marleau Avenue P.O. Box 1236 Cornwall, ON K6H 5V3 (613) 936-9050	In Case of Emergency	Canutec: (613) 996-6666
Material Uses	Not available.		

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
1) MIBK	108-10-1	60-100	TWA: 100 CEIL: 125 (ppm) from OSHA (PEL) [United States] TWA: 410 CEIL: 510 (ppb) from ACGIH (TLV) [United States] TWA: 205 STEL: 307 (ppm) from ACGIH TWA: 50 STEL: 75 (ppm) from NIOSH	ORAL (LD50): Acute: 2671 mg/kg [Mouse]. 4600 mg/kg [Rat]. 1600 mg/kg [Guinea pig].
2) Glycol Ether PM Acetate	108-65-6	30-60	TWA: 100 (ppm) from AIHA	ORAL (LD50): Acute: 8532 mg/kg [Rat].

## Section 3. Hazards Identification

Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
Potential Chronic Health Effects	<b>CARCINOGENIC EFFECTS:</b> Not available. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Not available. <b>DEVELOPMENTAL TOXICITY:</b> Not available. The substance is toxic to kidneys, the nervous system, liver, upper respiratory tract, eyes. Repeated or prolonged exposure to the substance can produce target organs damage.

**Section 4. First Aid Measures**

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

**Section 5. Fire Fighting Measures**

Products of Combustion	
Fire Fighting Media and Instructions	Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.  Not available.  Flammable in presence of open flames and sparks.

**Section 6. Accidental Release Measures**

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill and Leak	Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Section 7. Handling and Storage**

Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, alkalis.
Incompatibility	Highly reactive with oxidizing agents. Reactive with alkalis.
Storage	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

**Section 8. Exposure Controls/Personal Protection**

**Engineering Controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection**

*Eyes* Splash goggles.

*Body* Lab coat.

*Respiratory* Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

*Hands* Gloves.

**Protective Clothing (Pictograms)****Exposure Limits****MIBK**

TWA: 100 CEIL: 125 (ppm) from OSHA (PEL) [United States]

TWA: 410 CEIL: 510 (ppb) from ACGIH (TLV) [United States]

TWA: 205 STEL: 307 (ppm) from ACGIH

TWA: 50 STEL: 75 (ppm) from NIOSH

**Glycol Ether PM Acetate**

TWA: 100 (ppm) from AIHA

Consult local authorities for acceptable exposure limits.

**Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Liquid.	<b>Odor</b>	Not available.
<b>Molecular Weight</b>	Not applicable.	<b>Taste</b>	Not available.
<b>pH (1% Soln/Water)</b>	Not available.	<b>Color</b>	Not available.
<b>Boiling/Condensation Point</b>	The lowest known value is 115.9°C (240.6°F) (MIBK). Weighted average: 127.34°C (261.2°F)		
<b>Melting/Freezing Point</b>	May start to solidify at -84°C (-119.2°F) based on data for: MIBK.		
<b>Critical Temperature</b>	Not available.		
<b>Instability Temperature</b>	Not available.		
<b>Specific Gravity</b>	0.854		
<b>Vapor Pressure</b>	The highest known value is 2.1 kPa (@ 20°C) (MIBK). Weighted average: 1.49 kPa (@ 20°C)		
<b>Vapor Density</b>	The highest known value is 4.6 (Air = 1) (Glycol Ether PM Acetate). Weighted average: 3.89 (Air = 1)		
<b>Volatility</b>	100% (w/w).		
<b>Evaporation Rate</b>	0.39 (Glycol Ether PM Acetate) compared to Butyl acetate.		
<b>Odor Threshold</b>	The highest known value is 0.1 ppm (MIBK)		
<b>Viscosity</b>	Not available.		
<b>LogK<sub>ow</sub></b>	Not available.		
<b>Ionicity (in Water)</b>	Not available.		
<b>Dispersion Properties</b>	See solubility in water.		
<b>Solubility</b>	Soluble in cold water.		

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The Product is:	Flammable.
Auto-ignition Temperature	The lowest known value is 354°C (669.2°F) (Glycol Ether PM Acetate).
Flash Points	The lowest known value is CLOSED CUP: 16.1°C (61°F). (Tagliabue.). OPEN CUP: 23°C (73.4°F). (MIBK)
Flammable Limits	The greatest known range is LOWER: 1.3% UPPER: 13.1% (Glycol Ether PM Acetate)
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames and sparks.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

### Section 10. Stability and Reactivity Data

Stability	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Highly reactive with oxidizing agents. Reactive with alkalis.
Corrosivity	Not available.
Hazardous Decomposition Products	
Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.

### Section 11. Toxicological Information

Routes of Entry	Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 1600 mg/kg [Guinea pig]. (MIBK).
Acute Effects on Humans	<p><i>Eyes</i> Hazardous in case of eye contact (irritant).</p> <p><i>Skin</i> Sensitization of the product: Not available. Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.</p> <p><i>Inhalation</i> Hazardous in case of inhalation.</p> <p><i>Ingestion</i> Hazardous in case of ingestion.</p>
Chronic Effects on Humans	<p><b>CARCINOGENIC EFFECTS:</b> Not available.  <b>MUTAGENIC EFFECTS:</b> Not available.  <b>TERATOGENIC EFFECTS:</b> Not available.  <b>DEVELOPMENTAL TOXICITY:</b> Not available.  The substance is toxic to kidneys, the nervous system, liver, upper respiratory tract, eyes.  Repeated or prolonged exposure to the substance can produce target organs damage.</p>
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Passes through the placental barrier in human. (MIBK)
Special Remarks on Other Toxic Effects on Humans	Not available.

**Section 12. Ecological Information**

Ecotoxicity Not available.

BOD5 and COD Not available.

Products of Biodegradation

Toxicity of the Products of Biodegradation

Special Remarks on the Products of Biodegradation Not available.

**Section 13. Disposal Considerations**

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Not available.

**Section 14. Transport Information**

TDG Classification Class 3: Flammable liquid.



PIN Shipping name: Paint related material. UNNA: UN1263 PG: II

Maritime Transportation Not available.

Special Provisions for Transport Not available.

**Section 15. Other Regulatory Information and Pictograms**

WHMIS (Classification) Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).



Regulatory Lists CEPA DSL: MIBK; Glycol Ether PM Acetate

Canadian NPRI: MIBK

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications HCS (U.S.A.) Class: Flammable liquid having a flash point lower than 37.8°C (100°F).  
Class: Target organ effects.

USA Regulatory Lists

Pennsylvania RTK: MIBK  
 Florida: MIBK  
 Minnesota: MIBK  
 Massachusetts RTK: MIBK  
 New Jersey: MIBK

TSCA 5(e) substance consent order: MIBK  
 TSCA 8(a) PAIR: MIBK; Glycol Ether PM Acetate  
 TSCA 8(a) IUR: MIBK  
 TSCA 8(b) inventory: MIBK; Glycol Ether PM Acetate  
 SARA 313 toxic chemical notification and release reporting: MIBK 62%  
 CERCLA: Hazardous substances: MIBK: 5000 lbs. (2268 kg);

DSD (EEC)

R11- Highly flammable.  
 R36/38- Irritating to eyes and skin.

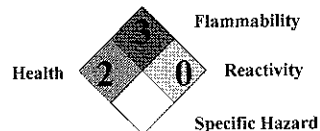
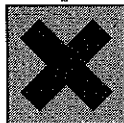
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International  
Regulations Lists

No products were found.

Hazardous Material  
Information System  
(U.S.A.)

Health	*	2
Flammability		3
Reactivity		0
Personal Protection		h

National Fire  
Protection  
Association (U.S.A.)DOT (U.S.A)  
(Pictograms)DSD (Europe)  
(Pictograms)ADR (Europe)  
(Pictograms)

## Section 16. Other Information

References Not available.

Other Special  
Considerations Not available.

Validated by Janet Sills on 11/8/2007.

Verified by Carole Lamothe.

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## Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.