



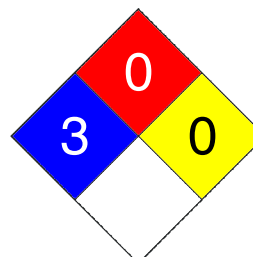
# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name** Dynamic Paint & Varnish Remover - AA281100/AA281200/AA281300  
**CAS #** Mixture  
**Product Use** Paint Remover  
**Manufacturer** Dynamic Paint Products Inc.  
 7040 Financial Drive  
 Mississauga, ON L5N 7H5 CA  
 Phone: 1-905-812-9319  
 Emergency Phone: 1-613-996-6666 (CANUTEC)

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 3
Flammability	0
Physical Hazard	0
Personal Protection	B



## 2. Hazards Identification

**Emergency Overview** DANGER  
 TOXIC.  
 Contains material which may cause cancer. Contains potential teratogens. Contains a potential mutagen.  
 Eye and skin irritant.

### Potential short term health effects

**Routes of exposure** Eye, Skin contact, Skin absorption, Inhalation, Ingestion.  
**Eyes** Causes irritation.  
**Skin** Harmful. May be absorbed through the skin in toxic amounts. Causes irritation.

### ACGIH - Threshold Limit Values - Skin Notations

Methyl alcohol 67-56-1 Skin - potential significant contribution to overall exposure by the cutaneous route

### NIOSH - Pocket Guide - Skin Notations

Methyl alcohol 67-56-1 Potential for dermal absorption

**Inhalation** May be harmful or fatal if inhaled. Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

**Ingestion** This product may be harmful or fatal if swallowed. May cause stomach distress, nausea or vomiting. Aspiration of material into lungs can cause chemical pneumonitis.

**Target organs** Eyes. Kidney. Liver. Lungs. Respiratory system. Skin.

**Chronic effects** May cause chronic toxic effects.

**Signs and symptoms** Symptoms are prostration, gasping, pallor, and uncoordinated movements. Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## 3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Toluene	108-88-3	1 - 5
Methyl alcohol	67-56-1	10 - 30
Methylene chloride	75-09-2	60 - 100

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## 4. First Aid Measures

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### First aid procedures

<b>Eye contact</b>	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation develops or persists.
<b>Skin contact</b>	Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical attention if irritation persists.
<b>Inhalation</b>	If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.
<b>Ingestion</b>	Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

### Notes to physician

Symptoms may be delayed.

### General advice

Avoid contact with eyes and skin. Immediate medical attention is required. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep out of reach of children.

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## 5. Fire-fighting Measures

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<b>Flammable properties</b>	Not flammable by WHMIS criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry chemical. Foam. Carbon dioxide.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Hydrogen chloride.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

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## 6. Accidental Release Measures

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<b>Personal precautions</b>	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Use water spray to reduce vapours or divert vapour cloud drift.
<b>Methods for cleaning up</b>	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water.

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## 7. Handling and Storage

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<b>Handling</b>	Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing.
<b>Storage</b>	Keep out of the reach of children. Store in a closed container away from incompatible materials.

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## 8. Exposure Controls / Personal Protection

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### Exposure limit values

Ingredient(s)	Exposure limit values
Methyl alcohol	<b>ACGIH-TLV</b> TWA: 200 ppm STEL: 250 ppm
Methylene chloride	<b>ACGIH-TLV</b> TWA: 50 ppm
Toluene	<b>ACGIH-TLV</b> TWA: 20 ppm Skin: 50 ppm

**Engineering controls** Use only under good ventilation conditions or with respiratory protection.

### Personal protective equipment

<b>Eye/Face protection</b>	Wear safety glasses with side shields.
<b>Hand protection</b>	Rubber gloves. Confirm with a reputable supplier first.
<b>Skin and body protection</b>	As required by employer code.
<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Clear.
<b>Colour</b>	Yellow
<b>Form</b>	Gel
<b>Odour</b>	Ethereal
<b>Odour threshold</b>	Not available
<b>Physical state</b>	Liquid
<b>pH</b>	10
<b>Freezing point</b>	Not available
<b>Boiling point</b>	40 °C (104.00 °F)
<b>Pour point</b>	Not available
<b>Flash point</b>	None
<b>Evaporation Rate</b>	12.4 (BuAc=1)
<b>Flammability limits in air, lower, % by volume</b>	9.9 %
<b>Flammability Limits in Air, Upper, % by Volume</b>	20.5
<b>Vapour pressure</b>	272 mmHg
<b>Vapour density</b>	2.5
<b>Specific gravity</b>	1.2 @ 21°C
<b>Octanol/water coefficient</b>	Not available
<b>Solubility (H2O)</b>	Negligible
<b>Auto-ignition temperature</b>	Not available
<b>Viscosity</b>	Water thin
<b>Percent volatile</b>	95 %

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## 10. Stability and Reactivity

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<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids. Oxidizers. Metals.

**Hazardous decomposition products** May include and are not limited to: Oxides of carbon. Hydrogen chloride.

**Possibility of hazardous reactions** Hazardous polymerisation does not occur.

## 11. Toxicological Information

### Component analysis - LC50

Ingredient(s)	LC50
Methyl alcohol	Not available
Methylene chloride	14250 mg/m <sup>3</sup> rat
Toluene	12.5 mg/l/4h rat

### Component analysis - Oral LD50

Ingredient(s)	LD50
Methyl alcohol	5628 mg/kg rat; 7300 mg/kg mouse; 14200 mg/kg rabbit; 7600 mg/kg Monkey
Methylene chloride	1410 mg/kg rat
Toluene	636 mg/kg rat

### Effects of acute exposure

**Eye** Causes irritation.

**Skin** Harmful. May be absorbed through the skin in toxic amounts. Causes irritation.

#### ACGIH - Threshold Limit Values - Skin Notations

Methyl alcohol 67-56-1 Skin - potential significant contribution to overall exposure by the cutaneous route

#### NIOSH - Pocket Guide - Skin Notations

Methyl alcohol 67-56-1 Potential for dermal absorption

**Inhalation** May be harmful or fatal if inhaled. Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

**Ingestion** This product may be harmful or fatal if swallowed. May cause stomach distress, nausea or vomiting. Aspiration of material into lungs can cause chemical pneumonitis.

**Sensitisation** Non-hazardous by WHMIS criteria.

**Local effects** Toxic by inhalation, in contact with skin and if swallowed.

**Chronic effects** Non-hazardous by WHMIS criteria.

**Carcinogenicity** Contains a potential carcinogen.

#### ACGIH - Threshold Limit Values - Carcinogens

Methylene chloride 75-09-2 A3 - Confirmed animal carcinogen with unknown relevance to humans.

Toluene 108-88-3 A4 - Not Classifiable as a Human Carcinogen

#### IARC - Group 2B (Possibly Carcinogenic to Humans)

Methylene chloride 75-09-2 Monograph 71 [1999]; Supplement 7 [1987]

#### IARC - Group 3 (Not Classifiable)

Toluene 108-88-3 Monograph 71 [1999]; Monograph 47 [1989]

**Mutagenicity** Methylene chloride is considered mutagenic based on positive results obtained in mice exposed by inhalation.

**Reproductive effects** Non-hazardous by WHMIS criteria.

**Teratogenicity** Methanol has produced teratogenic effects in mice exposed by inhalation to high concentrations that did not produce significant maternal toxicity. Toluene (benzene, methyl-) has caused fetotoxicity (reduced fetal weight), behavioural effects (effects on learning and memory) and hearing loss (in males). These effects have been observed in the offspring of rats exposed by inhalation to 1200 or 1800 ppm toluene. These effects were observed in the absence of maternal toxicity.

**Synergistic Materials** Not available

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## 12. Ecological Information

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**Ecotoxicity** Components of this product have been identified as having potential environmental concerns.

### Ecotoxicity - Freshwater Algae Data

Methylene chloride	75-09-2	96 Hr EC50 Pseudokirchneriella subcapitata: >500 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: >500 mg/L
Toluene	108-88-3	96 Hr EC50 Pseudokirchneriella subcapitata: >433 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 12.5 mg/L [static]

### Ecotoxicity - Freshwater Fish Species Data

Methyl alcohol	67-56-1	96 Hr LC50 Pimephales promelas: 28200 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 19500-20700 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 18-20 ml/L [static]; 96 Hr LC50 Lepomis macrochirus: 13500-17600 mg/L [flow-through]
Methylene chloride	75-09-2	96 Hr LC50 Pimephales promelas: 140.8-277.8 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 262-855 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 193 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 193 mg/L [flow-through]
Toluene	108-88-3	96 Hr LC50 Pimephales promelas: 15.22-19.05 mg/L [flow-through] (1 day old); 96 Hr LC50 Pimephales promelas: 12.6 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.89-7.81 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 14.1-17.16 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.8 mg/L [semi-static]; 96 Hr LC50 Lepomis macrochirus: 11.0-15.0 mg/L [static]; 96 Hr LC50 Oryzias latipes: 54 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 28.2 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 50.87-70.

### Ecotoxicity - Microtox Data

Methyl alcohol	67-56-1	5 min EC50 Photobacterium phosphoreum: 43000 mg/L; 15 min EC50 Photobacterium phosphoreum: 40000 mg/L; 25 min EC50 Photobacterium phosphoreum: 39000 mg/L
Methylene chloride	75-09-2	24 Hr EC50 Nitrosomonas: 1 mg/L; 15 min EC50 Photobacterium phosphoreum: 2.88 mg/L
Toluene	108-88-3	30 min EC50 Photobacterium phosphoreum: 19.7 mg/L

### Ecotoxicity - Water Flea Data

Methylene chloride	75-09-2	48 Hr EC50 Daphnia magna: 1532 - 1847 mg/L [Static]; 48 Hr EC50 Daphnia magna: 190 mg/L
Toluene	108-88-3	48 Hr EC50 Daphnia magna: 5.46 - 9.83 mg/L [Static]; 48 Hr EC50 Daphnia magna: 11.5 mg/L

<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Persistence and degradability</b>	Not available
<b>Bioaccumulation/accumulation</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Chemical fate information</b>	Not available
<b>Other adverse effects</b>	Not available

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## 13. Disposal Considerations

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<b>Waste codes</b>	Not available
<b>Disposal instructions</b>	Review federal, provincial, and local government requirements prior to disposal.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available

## 14. Transport Information

### Transportation of Dangerous Goods (TDG - Canada)

#### Basic shipping requirements:

<b>Proper shipping name</b>	Toxic liquid, organic, n.o.s. (Methylene chloride)
<b>Hazard class</b>	6.1
<b>UN number</b>	UN2810
<b>Packing group</b>	III
<b>Additional information:</b>	
<b>Packaging exceptions</b>	Limited quantity for containers <5L



## 15. Regulatory Information

**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

#### Canada - CEPA - Schedule I - List of Toxic Substances

Methylene chloride	75-09-2	Present
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#### Canada - WHMIS - Ingredient Disclosure List

Methyl alcohol	67-56-1	1 %
Methylene chloride	75-09-2	0.1 %
Toluene	108-88-3	1 %

**WHMIS classification** Class D - Division 1B, 2A, 2B

**WHMIS status** Controlled

#### WHMIS labeling



#### Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. Other Information

**Disclaimer** Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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**Other Information** For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.