



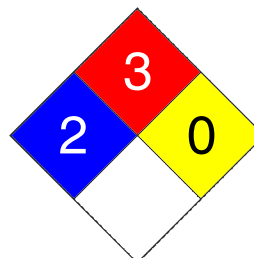
# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name** Dynamic Chalkboard Paints  
**Synonym(s)** Dynamic Table Tennis/Chalkboard Paint - AA660100, AA660400, AA660500  
Dynamic Black Chalkboard Paint - AA670100, AA670400, AA670500  
**CAS #** Mixture  
**Product Use** Coating  
**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	* 2
Flammability	3
Physical Hazard	0
Personal Protection	B



## 2. Hazards Identification

**Emergency Overview** DANGER  
Flammable liquid - may release vapours that form flammable mixtures at or above the flash point. Containers may explode when heated.  
Eye and skin irritant. Contains a potential teratogen.  
Contains material which may cause cancer. Contains a potential mutagen. May cause chronic toxic effects. (AA660100, AA660400, AA660500)

**Potential short term health effects**

**Routes of exposure** Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

**Eyes** May cause irritation.

**Skin** May cause irritation. May be absorbed through the skin.

**Inhalation** May cause respiratory tract irritation.

**Ingestion** May cause stomach distress, nausea or vomiting.

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

**Chronic effects** Significant lung effects have been observed in animals following exposure to airborne concentrations of Carbon Black of less than 100 mg/m<sup>3</sup>.

**Signs and symptoms** 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
Carbon black *	1333-86-4	1 - 5
Xylene	1330-20-7	15 - 40
Stoddard solvent	8052-41-3	15 - 40

**Composition comments** \* May contain this chemical

## 4. First Aid Measures

**First aid procedures**

**Eye contact** Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

<b>Skin contact</b>	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
<b>Notes to physician</b>	Symptoms may be delayed.
<b>General advice</b>	Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). 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. Avoid contact with eyes and skin. Keep out of reach of children.

## 5. Fire-fighting Measures

<b>Flammable properties</b>	Flammable by WHMIS criteria. Vapours may travel to a source of ignition and flash back. Containers may explode when heated.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Carbon dioxide. Alcohol foam. Dry chemical.
<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.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

## 6. Accidental Release Measures

<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.
<b>Methods for cleaning up</b>	Remove sources of ignition. 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.

## 7. Handling and Storage

<b>Handling</b>	Use good industrial hygiene practices in handling this material.
<b>Storage</b>	Keep out of reach of children. Store in a closed container away from incompatible materials. Keep away from heat, open flames or other sources of ignition.

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## 8. Exposure Controls / Personal Protection

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### Exposure limit values

Ingredient(s)	Exposure limit values
Carbon black	<b>ACGIH-TLV</b> TWA: 3.5 mg/m <sup>3</sup>
Stoddard solvent	<b>ACGIH-TLV</b> TWA: 100 ppm
Xylene	<b>ACGIH-TLV</b> TWA: 100 ppm STEL: 150 ppm

### Engineering controls

General ventilation normally adequate.

### Personal protective equipment

#### Eye/Face protection

Wear safety glasses with side shields.

#### Hand protection

Rubber gloves. Confirm with a reputable supplier first.

#### Skin and body protection

As required by employer code.

#### Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

#### General hygiene considerations

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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Appearance	Opaque.
Colour	Black or Green
Form	Liquid
Odour	Aromatic.
Odour threshold	Not available
Physical state	Liquid
pH	Not available
Freezing point	Not available
Boiling point	139 °C (282.20 °F)
Pour point	Not available
Flash point	26 °C (78.80 °F) TCC
Evaporation Rate	> 1 (BuAc = 1)
Flammability limits in air, lower, % by volume	1
Flammability Limits in Air, Upper, % by Volume	7
Vapour pressure	Not available
Vapour density	> 1 (Air = 1)
Specific gravity	1 - 1.1 (H <sub>2</sub> O = 1)
Octanol/water coefficient	Not available
Solubility (H <sub>2</sub> O)	Insoluble
Auto-ignition temperature	Not available
VOC (Weight %)	537 - 590 g/L
Viscosity	Slightly viscous

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## 10. Stability and Reactivity

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Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Avoid high temperatures. Do not mix with other chemicals.
Incompatible materials	Acids. Strong oxidizing agents. Reducing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

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Possibility of hazardous reactions Hazardous polymerisation does not occur.

## 11. Toxicological Information

### Component analysis - LC50

Ingredient(s)	LC50
Carbon black	Not available
Stoddard solvent	> 5500 mg/m <sup>3</sup> rat
Xylene	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
Carbon black	8000 mg/kg rat
Stoddard solvent	5000 mg/kg rat
Xylene	4300 mg/kg rat

### Effects of acute exposure

<b>Eye</b>	May cause irritation.
<b>Skin</b>	May cause irritation. May be absorbed through the skin.
<b>Inhalation</b>	May cause respiratory tract irritation.
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.

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

**Chronic effects** Significant lung effects have been observed in animals following exposure to airborne concentrations of Carbon Black of less than 100 mg/m<sup>3</sup>. (AA660100, AA660400, AA660500)

**Carcinogenicity** Contains a potential carcinogen. (AA660100, AA660400, AA660500)

#### ACGIH - Threshold Limit Values - Carcinogens

Carbon black	1333-86-4	A4 - Not Classifiable as a Human Carcinogen
Xylene	1330-20-7	A4 - Not Classifiable as a Human Carcinogen

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

Carbon black	1333-86-4	Monograph 93 [in preparation]; Monograph 65 [1996]
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#### IARC - Group 3 (Not Classifiable)

Xylene	1330-20-7	Monograph 71 [1999]; Monograph 47 [1989]
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**Mutagenicity** Contains a potential mutagen. (AA660100, AA660400, AA660500)

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

**Teratogenicity** Xylene is considered fetotoxic in humans, based on observations of reduced fetal weight, delayed ossification and persistent behavioural effects in animal studies in the absence of maternal toxicity.

**Synergistic Materials** Not available

## 12. Ecological Information

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

#### Ecotoxicity - Freshwater Fish Species Data

Xylene	1330-20-7	96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 2.661-4.093 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 13.5-17.3 mg/L; 96 Hr LC50 Lepomis macrochirus: 13.1-16.5 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 19 mg/L; 96 Hr LC50 Lepomis macrochirus: 7.711-9.591 mg/L [static]; 96 Hr LC50 Pimephales promelas: 23.53-29.
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#### Ecotoxicity - Microtox Data

Xylene	1330-20-7	24 hr EC50 Photobacterium phosphoreum: 0.0084 mg/L
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#### Ecotoxicity - Water Flea Data

Carbon black	1333-86-4	24 Hr EC50 Daphnia magna: >5600 mg/L
Xylene	1330-20-7	48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L

**Environmental effects** Harmful to aquatic life.

**Aquatic toxicity** Not available

**Persistence and degradability** Not available

**Bioaccumulation/accumulation** Not available

**Partition coefficient** Not available

Mobility in environmental media	Not available
Chemical fate information	Not available
Other adverse effects	Not available

### 13. Disposal Considerations

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

### 14. Transport Information

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

**Basic shipping requirements:**

Proper shipping name	PAINT RELATED MATERIAL
Hazard class	3
UN number	1263
Packing group	III
<b>Additional information:</b>	
Special provisions	59



### 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 - High Priority Chemicals as Identified by DSL Categorization**

Carbon black 1333-86-4 Batch 12, published September 26, 2009

**Canada - WHMIS - Ingredient Disclosure List**

Carbon black 1333-86-4 1 %  
Stoddard solvent 8052-41-3 1 %

**WHMIS classification** Class B - Division 2 - Flammable Liquid, Class D - Division 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)

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## 16. Other Information

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**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.