



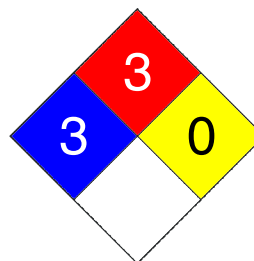
MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Dynamic Methanol
CAS # Mixture
Product Use Solvent
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	3
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency Overview DANGER
TOXIC.
Flammable liquid - may release vapours that form flammable mixtures at or above the flash point. Containers may explode when heated.
Contains a potential teratogen. Eye and skin irritant.

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 in harmful amounts.

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 Harmful 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. Respiratory system. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

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
Methyl alcohol	67-56-1	60 - 100

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

Skin contact Immediately flush with water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation	If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.
Ingestion	Obtain medical attention immediately. 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.
General advice	Immediate medical attention is required. Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Wear impervious gloves and chemical splash goggles. 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.

5. Fire-fighting Measures

Flammable properties	Flammable by WHMIS criteria. Vapours may travel to a source of ignition and flash back. Containers may explode when heated.
Extinguishing media	
Suitable extinguishing media	Carbon dioxide. Dry chemical. Alcohol foam.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Cool containers with flooding quantities of water until well after fire is out.
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Formaldehyde.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	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.
Methods for containment	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.
Methods for cleaning up	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. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water.

7. Handling and Storage

Handling	Do not use in poorly ventilated or confined spaces without proper respiratory protection. Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing.
Storage	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.

8. Exposure Controls / Personal Protection

Exposure limit values	
Ingredient(s)	Exposure limit values
Methyl alcohol	ACGIH-TLV TWA: 200 ppm STEL: 250 ppm
Engineering controls	Use only under good ventilation conditions or with respiratory protection.

Personal protective equipment

Eye/Face protection	Chemical splash goggles.
Hand protection	Impervious gloves. Confirm with reputable supplier first.
Skin and body protection	Wear appropriate chemical resistant clothing.
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.

9. Physical and Chemical Properties

Appearance	Clear.
Colour	Colourless
Form	Liquid
Odour	Mild alcohol.
Odour threshold	Not available
Physical state	Liquid
pH	Not applicable
Freezing point	-97.8 °C (-144.04 °F)
Boiling point	64.4 °C (147.92 °F)
Pour point	Not available
Flash point	11 °C (51.80 °F) TCC
Evaporation Rate	2 (BuAc=1)
Flammability limits in air, lower, % by volume	5.5
Flammability Limits in Air, Upper, % by Volume	36.5
Vapour pressure	96 - 100 mmHg
Vapour density	1.11 (air=1)
Specific gravity	0.79
Octanol/water coefficient	Not available
Solubility (H2O)	Complete
Auto-ignition temperature	465 °C (869.00 °F)
Percent volatile	100

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Heat, open flames, static discharge, sparks and other ignition sources. Do not mix with other chemicals.
Incompatible materials	Caustics. Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Formaldehyde.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Methyl alcohol	Not available

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

Effects of acute exposure

Eye	May cause irritation.
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Skin May cause irritation. May be absorbed through the skin in harmful amounts.

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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 Non-hazardous by WHMIS criteria.

Mutagenicity Non-hazardous by WHMIS criteria.

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.

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

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]

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

Environmental effects Not available

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 METHANOL
Hazard class 3 (6.1)
UN number UN1230
Packing group II
Additional information:
Special provisions 43



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 - WHMIS - Ingredient Disclosure List

Methyl alcohol 67-56-1 1 %

WHMIS classification Class B - Division 2 - Flammable Liquid, 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.

Issue date 27-Jan-2010
Effective Date 15-Jan-2010
Expiry Date 15-Jan-2013
Prepared by Dell Tech Laboratories Ltd. (519) 858-5021

Other Information

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