



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Dynamic Appliance Touch Up
Synonym(s) Black - PA30PG3C
Almond - PA30PG5C
White - PA30PG1C
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)

2. Hazards Identification

Emergency Overview DANGER
FLAMMABLE LIQUID AND VAPOUR.
MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

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.

NIOSH - Pocket Guide - Skin Notations

Ethylene glycol monobutyl ether	111-76-2	Potential for dermal absorption
N-Butyl alcohol	71-36-3	Potential for dermal absorption

Inhalation Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Target organs Blood. Eyes. Kidney. Liver. Respiratory system. Skin.

Chronic effects This product may be harmful if it is absorbed through the skin. Prolonged or repeated exposure can cause drying, defatting and dermatitis.

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.

Potential environmental effects See section 12.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
N-Butyl alcohol	71-36-3	1 - 5
Methyl isobutyl ketone	108-10-1	1 - 5
Isopropanol	67-63-0	1 - 5
Ethylene glycol monobutyl ether	111-76-2	1 - 5
Acetone	67-64-1	1 - 5
Toluene	108-88-3	10 - 30
Xylene	1330-20-7	5 - 10
N-Butyl acetate	123-86-4	5 - 10
Ethyl acetate	141-78-6	5 - 10

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.
Skin contact	Flush with cool 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.
Ingestion	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Notes to physician

Symptoms may be delayed.

General advice

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

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. Alcohol foam. Dry chemical. Foam.

Unsuitable extinguishing media Do not use water.

Protection of firefighters

Specific hazards arising from the chemical Not available

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.

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.

Environmental precautions

Do not discharge into lakes, streams, ponds or public waters.

Methods for containment

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

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.

7. Handling and Storage

Handling

Use according to package label instructions.
Avoid contact with eyes and skin.
Use only with adequate ventilation.
Avoid breathing vapours or mists of this product.
Wash thoroughly after handling.

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
Acetone	ACGIH-TLV TWA: 500 ppm STEL: 750 ppm
Ethyl acetate	ACGIH-TLV TWA: 400 ppm
Ethylene glycol monobutyl ether	ACGIH-TLV TWA: 20 ppm
Isopropanol	ACGIH-TLV TWA: 200 ppm STEL: 400 ppm
Methyl isobutyl ketone	ACGIH-TLV TWA: 20 ppm STEL: 75 ppm
N-Butyl acetate	ACGIH-TLV TWA: 150 ppm STEL: 200 ppm
N-Butyl alcohol	ACGIH-TLV TWA: 20 ppm
Toluene	ACGIH-TLV TWA: 20 ppm Skin: 50 ppm
Xylene	ACGIH-TLV TWA: 100 ppm STEL: 150 ppm

Engineering controls

Use only under good ventilation conditions or with respiratory protection.

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

Not normally required if good ventilation is maintained and exposure guidelines are not exceeded. 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	Opaque
Colour	Black / Tan / White
Form	Liquid
Odour	Strong Hydrocarbon
Odour threshold	Not available
Physical state	Liquid
pH	Not available
Freezing point	Not available
Boiling point	110 °C (230.00 °F)

Pour point	Not available
Evaporation Rate	2.1 (Ether = 1)
Flash point	6 °C (42.80 °F) TCC
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	1.3
Flammability Limits in Air, Upper, % by Volume	6.7
Vapour pressure	7.6 mmHg
Vapour density	3.1 (Air = 1)
Specific gravity	Not available
Octanol/water coefficient	Not available
Solubility (H2O)	Insoluble
VOC (Weight %)	86
Viscosity	Slightly viscous

10. Stability and Reactivity

Reactivity	None known.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Avoid high temperatures. Do not mix with other chemicals.
Incompatible materials	Caustics. Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Acetone	44000 mg/m ³ /4H mouse
Ethyl acetate	Not available
Ethylene glycol monobutyl ether	2.21 mg/l/4h rat
Isopropanol	16970 mg/l/4h rat
Methyl isobutyl ketone	8.2 mg/l/4h rat
N-Butyl acetate	2000 ppm rat; 2000 mg/l/4h rat
N-Butyl alcohol	17.7 mg/l/4h rat
Toluene	12.5 mg/l/4h rat
Xylene	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Acetone	5800 mg/kg rat; 5340 mg/kg rabbit; 3000 mg/kg mouse; 2857 mg/kg human
Ethyl acetate	5620 mg/kg rat; 4100 mg/kg mouse; 4935 mg/kg rabbit; 5500 mg/kg guinea pig
Ethylene glycol monobutyl ether	470 mg/kg rat; 320 mg/kg rabbit
Isopropanol	4396 mg/kg rat
Methyl isobutyl ketone	2080 mg/kg rat; 1200 mg/kg mouse
N-Butyl acetate	10770 mg/kg rat; 7100 mg/kg mouse; 7400 mg/kg rabbit
N-Butyl alcohol	790 mg/kg rat
Toluene	636 mg/kg rat
Xylene	4300 mg/kg rat

Effects of acute exposure

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

NIOSH - Pocket Guide - Skin Notations

Ethylene glycol monobutyl ether	111-76-2	Potential for dermal absorption
N-Butyl alcohol	71-36-3	Potential for dermal absorption

Inhalation Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Sensitisation Non-hazardous by WHMIS criteria.

Chronic effects Non-hazardous by WHMIS criteria.

Carcinogenicity Contains a potential carcinogen.

ACGIH - Threshold Limit Values - Carcinogens

Acetone	67-64-1	A4 - Not Classifiable as a Human Carcinogen
Ethylene glycol monobutyl ether	111-76-2	A3 - Confirmed animal carcinogen with unknown relevance to humans.
Isopropanol	67-63-0	A4 - Not Classifiable as a Human Carcinogen
Methyl isobutyl ketone	108-10-1	A3 - Confirmed animal carcinogen with unknown relevance to humans.
Toluene	108-88-3	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)

Methyl isobutyl ketone	108-10-1	Monograph 101 [in preparation]
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IARC - Group 3 (Not Classifiable)

Ethylene glycol monobutyl ether	111-76-2	Monograph 88 [2006]
Isopropanol	67-63-0	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977]
Toluene	108-88-3	Monograph 71 [1999]; Monograph 47 [1989]
Xylene	1330-20-7	Monograph 71 [1999]; Monograph 47 [1989]

Mutagenicity Non-hazardous by WHMIS criteria.

Reproductive effects Non-hazardous by WHMIS criteria.

Teratogenicity 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. 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.

Name of Toxicologically Synergistic Products Not available

12. Ecological Information

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

Ecotoxicity - Freshwater Algae - Acute Toxicity Data

Ethyl acetate	141-78-6	48 Hr EC50 <i>Desmodesmus subspicatus</i> : 3300 mg/L
Isopropanol	67-63-0	96 Hr EC50 <i>Desmodesmus subspicatus</i> : >1000 mg/L; 72 Hr EC50 <i>Desmodesmus subspicatus</i> : >1000 mg/L
Methyl isobutyl ketone	108-10-1	96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 400 mg/L
N-Butyl acetate	123-86-4	72 Hr EC50 <i>Desmodesmus subspicatus</i> : 674.7 mg/L
N-Butyl alcohol	71-36-3	96 Hr EC50 <i>Desmodesmus subspicatus</i> : >500 mg/L; 72 Hr EC50 <i>Desmodesmus subspicatus</i> : >500 mg/L
Toluene	108-88-3	96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : >433 mg/L; 72 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 12.5 mg/L [static]

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Acetone	67-64-1	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 4.74 - 6.33 mL/L; 96 Hr LC50 <i>Pimephales promelas</i> : 6210 - 8120 mg/L [static]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 8300 mg/L
Ethyl acetate	141-78-6	96 Hr LC50 <i>Pimephales promelas</i> : 220-250 mg/L [flow-through]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 484 mg/L [flow-through]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 352-500 mg/L [semi-static]
Ethylene glycol monobutyl ether	111-76-2	96 Hr LC50 <i>Lepomis macrochirus</i> : 1490 mg/L [static]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 2950 mg/L
Isopropanol	67-63-0	96 Hr LC50 <i>Pimephales promelas</i> : 9640 mg/L [flow-through]; 96 Hr LC50 <i>Pimephales promelas</i> : 11130 mg/L [static]; 96 Hr LC50 <i>Lepomis macrochirus</i> : >1400000 µg/L
Methyl isobutyl ketone	108-10-1	96 Hr LC50 <i>Pimephales promelas</i> : 496-514 mg/L [flow-through]
N-Butyl acetate	123-86-4	96 Hr LC50 <i>Pimephales promelas</i> : 17-19 mg/L [flow-through]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 100 mg/L [static]; 96 Hr LC50 <i>Leuciscus idus</i> : 62 mg/L [static]
N-Butyl alcohol	71-36-3	96 Hr LC50 <i>Pimephales promelas</i> : 1730-1910 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 1740 mg/L [flow-through]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 100000-500000 µg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 1910000 µg/L [static]
Toluene	108-88-3	96 Hr LC50 <i>Pimephales promelas</i> : 15.22-19.05 mg/L [flow-through] (1 day old); 96 Hr LC50 <i>Pimephales promelas</i> : 12.6 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 5.89-7.81 mg/L [flow-through]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 14.1-17.16 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 5.8 mg/L [semi-static]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 11.0-15.0 mg/L [static]; 96 Hr LC50 <i>Oryzias latipes</i> : 54 mg/L [static]; 96 Hr LC50 <i>Poecilia reticulata</i> : 28.2 mg/L [semi-static]; 96 Hr LC50 <i>Poecilia reticulata</i> : 50.87-70.
Xylene	1330-20-7	96 Hr LC50 <i>Pimephales promelas</i> : 13.4 mg/L [flow-through]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 2.661-4.093 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 13.5-17.3 mg/L; 96 Hr LC50 <i>Lepomis macrochirus</i> : 13.1-16.5 mg/L [flow-through]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 19 mg/L; 96 Hr LC50 <i>Lepomis macrochirus</i> : 7.711-9.591 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 23.53-29.

Ecotoxicity - Water Flea - Acute Toxicity Data

Acetone	67-64-1	48 Hr EC50 <i>Daphnia magna</i> : 10294 - 17704 mg/L [Static]; 48 Hr EC50 <i>Daphnia magna</i> : 12600 - 12700 mg/L
Ethyl acetate	141-78-6	48 Hr EC50 <i>Daphnia magna</i> : 560 mg/L [Static]
Ethylene glycol monobutyl ether	111-76-2	24 Hr EC50 <i>Daphnia magna</i> : 1698 - 1940 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : >1000 mg/L
Isopropanol	67-63-0	48 Hr EC50 <i>Daphnia magna</i> : 13299 mg/L
Methyl isobutyl ketone	108-10-1	48 Hr EC50 <i>Daphnia magna</i> : 170 mg/L
N-Butyl acetate	123-86-4	24 Hr EC50 <i>Daphnia magna</i> : 72.8 mg/L
N-Butyl alcohol	71-36-3	48 Hr EC50 <i>Daphnia magna</i> : 1983 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : 1897 - 2072 mg/L [Static]
Toluene	108-88-3	48 Hr EC50 <i>Daphnia magna</i> : 5.46 - 9.83 mg/L [Static]; 48 Hr EC50 <i>Daphnia magna</i> : 11.5 mg/L
Xylene	1330-20-7	48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 <i>Gammarus lacustris</i> : 0.6 mg/L

Persistence and degradability Not available

Bioaccumulation/accumulation Not available

Mobility in environmental media Not available

Environmental effects Harmful to aquatic life.

Aquatic toxicity Not available

Partition coefficient Not available

Chemical fate information Not available

Other adverse effects Not available

13. Disposal Considerations

Disposal instructions Review federal, provincial, and local government requirements prior to disposal.

Waste from residues / unused products Not available

14. Transport Information

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

Proper shipping name	PAINT
Hazard class	3
UN number	1263
Packing group	II
Additional information:	
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 - Schedule I - List of Toxic Substances

Ethylene glycol monobutyl ether 111-76-2 Present

Canada - WHMIS - Ingredient Disclosure List

Acetone	67-64-1	1 %
Ethyl acetate	141-78-6	1 %
Ethylene glycol monobutyl ether	111-76-2	1 %
Isopropanol	67-63-0	1 %
Methyl isobutyl ketone	108-10-1	1 %
N-Butyl acetate	123-86-4	1 %
N-Butyl alcohol	71-36-3	1 %
Toluene	108-88-3	1 %

WHMIS classification

Class B - Division 2 - Flammable Liquid, Class D - Division 2A, 2B

WHMIS status

Controlled

WHMIS labeling



Inventory Status

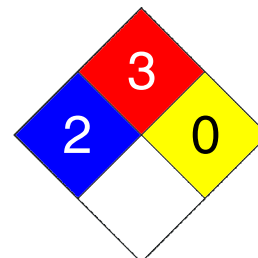
Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

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

16. Other Information

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

Health	* 2
Flammability	3
Physical Hazard	0
Personal Protection	X



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-Jul-2012

Effective Date

15-Aug-2012

Expiry Date

15-Aug-2015

Prepared by

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Other Information

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

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.