



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Dynamic Acrylic Aerosols
Synonym(s) Evergreen - AB26S501
 Flag Red - AB26S505
 Flat White - AB26S507
 Flat Black - AB26S508
 Gloss White - AB26S510
 Gloss Black - AB26S511
 Horizon Blue - AB26S516
 Semi-Gloss White - AB26S539

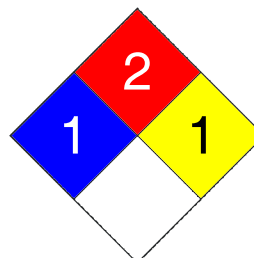
CAS # Mixture

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	* 1
Flammability	2
Physical Hazard	1
Personal Protection	B



2. Hazards Identification

Emergency Overview DANGER
 Contents under pressure. Containers may explode when heated.
 Eye and skin irritant. Toxic.
 Contains material which may cause cancer. (AB26S508, AB26S511)

Potential short term health effects

Routes of exposure Eye, Skin contact, Skin absorption, Inhalation.
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 Harmful if inhaled. Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

Ingestion Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

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

Chronic effects 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.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Carbon black *	1333-86-4	0.1 - 1
Sec-Butanol *	78-92-2	1 - 5
N-Butyl alcohol	71-36-3	1 - 5
Isopropanol *	67-63-0	1 - 5
Ethylene glycol monobutyl ether	111-76-2	3 - 7
Methane, oxybis-	115-10-6	30 - 60
Composition comments	* May contain this chemical	

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	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. If breathing has stopped, trained personnel should administer CPR immediately.
Ingestion	Not a normal route of exposure. 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

Do not puncture or incinerate container. 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. Immediate medical attention is required.

5. Fire-fighting Measures

Flammable properties	Non-flammable aerosol by flame projection test. Containers may explode when heated.
Extinguishing media	
Suitable extinguishing media	Dry chemical. Alcohol foam. Carbon dioxide.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. 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.
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	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Remove sources of ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite.

7. Handling and Storage

Handling

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. Do not store at temperatures above 49°C (120.2°F). Keep away from heat, open flames or other sources of ignition. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limit values**Ingredient(s)****Exposure limit values**

Carbon black

ACGIH-TLVTWA: 3.5 mg/m³

Ethylene glycol monobutyl ether

ACGIH-TLV

TWA: 20 ppm

Isopropanol

ACGIH-TLV

TWA: 200 ppm

STEL: 400 ppm

Methane, oxybis-

ACGIH-TLV

Not established

N-Butyl alcohol

ACGIH-TLV

TWA: 20 ppm

Sec-Butanol

ACGIH-TLV

TWA: 100 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.

9. Physical and Chemical Properties

Appearance

Aerosol.

Colour

Various colours

Form

Aerosol.

Odour

Alcohol

Odour threshold

Not available

Physical state

Liquid

pH

9.25 - 9.75

Freezing point

Not available

Boiling point

83 - 118 °C (181.40 - 244.40 °F)

Pour point

Not available

Flash point

14 - 33 °C (57.20 - 91.40 °F)

Evaporation Rate

> 1 (Ether = 1)

Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	> 275 kPa
Vapour density	> 1 (Air = 1)
Specific gravity	0.99 - 1.21 (H2O = 1)
Octanol/water coefficient	Not available
Solubility (H2O)	Insoluble
Auto-ignition temperature	Not available
Viscosity	Water thin
Percent volatile	75 - 85

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Aerosol containers are unstable at temperatures above 49°C (120.2°F).
Incompatible materials	Caustics. Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Carbon black	Not available
Ethylene glycol monobutyl ether	2.21 mg/l/4h rat
Isopropanol	16970 mg/l/4h rat
Methane, oxybis-	308.5 mg/l/4h rat
N-Butyl alcohol	17.7 mg/l/4h rat
Sec-Butanol	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Carbon black	8000 mg/kg rat
Ethylene glycol monobutyl ether	470 mg/kg rat; 320 mg/kg rabbit
Isopropanol	4396 mg/kg rat
Methane, oxybis-	Not available
N-Butyl alcohol	790 mg/kg rat
Sec-Butanol	4893 mg/kg rabbit; 2193 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 Harmful if inhaled. Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

Ingestion Not a normal route of exposure. 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/m³. (AB26S508, AB26S511)

Carcinogenicity Contains a potential carcinogen. (AB26S508, AB26S511)

ACGIH - Threshold Limit Values - Carcinogens

Carbon black	1333-86-4	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

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)

Ethylene glycol monobutyl ether	111-76-2	Monograph 88 [2006]
Isopropanol	67-63-0	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977]

Mutagenicity Non-hazardous by WHMIS criteria.

Reproductive effects Non-hazardous by WHMIS criteria.

Teratogenicity Non-hazardous by WHMIS criteria.

Synergistic Materials Not available

12. Ecological Information

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

Ecotoxicity - Freshwater Algae Data

Isopropanol	67-63-0	96 Hr EC50 <i>Desmodesmus subspicatus</i> : >1000 mg/L; 72 Hr EC50 <i>Desmodesmus subspicatus</i> : >1000 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

Ecotoxicity - Freshwater Fish Species Data

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
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]
Sec-Butanol	78-92-2	96 Hr LC50 <i>Pimephales promelas</i> : 3380-3990 mg/L [flow-through]

Ecotoxicity - Microtox Data

Isopropanol	67-63-0	5 min EC50 <i>Photobacterium phosphoreum</i> : 35390 mg/L
N-Butyl alcohol	71-36-3	5 min EC50 <i>Photobacterium phosphoreum</i> : 2041.4 mg/L; 30 min EC50 <i>Photobacterium phosphoreum</i> : 2186 mg/L; 17 Hr EC50 <i>Pseudomonas putida</i> : 4400 mg/L; 24 Hr EC50 Aerobic heterotroph: 3980 mg/L

Ecotoxicity - Water Flea Data

Carbon black	1333-86-4	24 Hr EC50 <i>Daphnia magna</i> : >5600 mg/L
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
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]
Sec-Butanol	78-92-2	24 Hr EC50 <i>Daphnia magna</i> : 3750 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : 1859 - 7143 mg/L [Static]

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. Do not puncture or incinerate container.

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	AEROSOLS, non-flammable, containing substances in Class 6.1, packing group III
Hazard class	2.2 (6.1)
UN number	1950
Additional information:	
Special provisions	80



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 - CEPA - Schedule I - List of Toxic Substances

Ethylene glycol monobutyl ether 111-76-2 Present

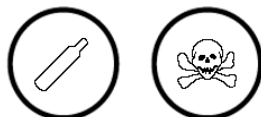
Canada - WHMIS - Ingredient Disclosure List

Carbon black	1333-86-4	1 %
Ethylene glycol monobutyl ether	111-76-2	1 %
Isopropanol	67-63-0	1 %
N-Butyl alcohol	71-36-3	1 %
Sec-Butanol	78-92-2	1 %

WHMIS classification Class A - Compressed Gas, 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.