MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name **Thrifty Aerosols**

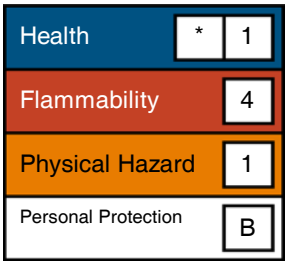
Synonym(s)
Gloss White - AB010000
Royal Blue - AB010001
Kelly Green - AB010002
Sun Yellow - AB010003
Flat Black - AB010004
Fire Red - AB010005
Sky Blue - AB010007
Gloss Black - AB010008
Flat White - AB010009
Primer Grey - AB010010
Primer Red - AB010011
Silver - AB010012
Gold - AB010013
Lacquer Clear - AB010014

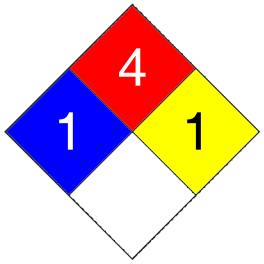
CAS # Mixture

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





2. Hazards Identification

Emergency Overview
DANGER
Product is a flammable aerosol packaged for consumer use. Contents under pressure.
Containers may explode when heated.
Eye and skin irritant.
Contains a potential teratogen.
Contains material which may cause cancer. (AB010000, AB010003, AB010004, AB010007, AB010008, AB010009, AB010010, AB010011, AB010012)
May cause chronic toxic effects. (AB010004, AB010009, AB010010, AB010011)
May cause sensitisation by skin contact. (AB010013)

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.
Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. (AB010013)

NIOSH - Pocket Guide - Skin Notations

Ethylene glycol monobutyl ether	111-76-2	Potential for dermal absorption

Inhalation 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. Lungs. 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
Ethylbenzene *	100-41-4	0.1 - 1
Carbon black *	1333-86-4	0.5 - 1.5
Ethylene glycol monobutyl ether *	111-76-2	1 - 5
Toluene	108-88-3	10 - 30
Butane	106-97-8	10 - 30
Acetone	67-64-1	15 - 40
Copper, elemental *	7440-50-8	3 - 7
Titanium dioxide *	13463-67-7	5 - 10
Solvent naptha (petroleum), light aliphatic *	64742-89-8	7 - 13
Hydrous magnesium silicate *	14807-96-6	7 - 13

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. 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. Containers may explode when heated.

Extinguishing media

Suitable extinguishing media Carbon dioxide. Alcohol foam. Dry chemical. Foam.

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 firefighers 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.
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
Acetone	**ACGIH-TLV** TWA: 500 ppm STEL: 750 ppm
Butane	**ACGIH-TLV** TWA: 1000 ppm
Carbon black	**ACGIH-TLV** TWA: 3.5 mg/m3
Copper, elemental	**ACGIH-TLV** TWA: 0.2 mg/m3
Ethylbenzene	**ACGIH-TLV** TWA: 100 ppm STEL: 125 ppm
Ethylene glycol monobutyl ether	**ACGIH-TLV** TWA: 20 ppm
Hydrous magnesium silicate	**ACGIH-TLV** TWA: 2 mg/m3
Solvent naptha (petroleum), light aliphatic	**ACGIH-TLV** Not established
Titanium dioxide	**ACGIH-TLV** TWA: 10 mg/m3
Toluene	**ACGIH-TLV** TWA: 20 ppm Skin: 50 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	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	Aerosol.
Colour	Various colours
Form	Aerosol.
Odour	Hydrocarbon
Odour threshold	Not available
Physical state	Liquid
pH	7
Freezing point	Not available
Boiling point	-17 °C (1.40 °F)
Pour point	Not available
Flash point	-17 °C (1.40 °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	0.7 - 0.76 (H2O = 1)
Octanol/water coefficient	Not available
Solubility (H2O)	Insoluble
Auto-ignition temperature	Not available
Viscosity	Water thin
Percent volatile	90 - 93

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	Strong oxidizing agents. Caustics. Acids. Reducing agents.
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
Acetone	Not available
Butane	Not available
Carbon black	Not available
Copper, elemental	Not available
Ethylbenzene	Not available
Ethylene glycol monobutyl ether	2.21 mg/l/4h rat
Hydrous magnesium silicate	Not available
Solvent naptha (petroleum), light aliphatic	1400 mg/l/4h rat
Titanium dioxide	Not available
Toluene	12.5 mg/l/4h rat

Component analysis - Oral LD50

Ingredient(s)	LD50
Acetone	5800 mg/kg rat; 5340 mg/kg rabbit; 3000 mg/kg mouse; 2857 mg/kg human
Butane	Not available
Carbon black	8000 mg/kg rat
Copper, elemental	Not available
Ethylbenzene	3500 mg/kg rat
Ethylene glycol monobutyl ether	470 mg/kg rat; 320 mg/kg rabbit
Hydrous magnesium silicate	Not available
Solvent naptha (petroleum), light aliphatic	5000 mg/kg rat
Titanium dioxide	24000 mg/kg rat
Toluene	636 mg/kg rat

Effects of acute exposure

Eye May cause irritation.

Skin May cause irritation. May be absorbed through the skin.
Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. (AB010013)

NIOSH - Pocket Guide - Skin Notations

Ethylene glycol monobutyl ether	111-76-2	Potential for dermal absorption

Inhalation 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 Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization reaction. (AB010013)

Chronic effects Repeated or prolonged exposure to Hydrous magnesium silicate (Talc) may cause scarring of the lungs with shortness of breath, chronic cough, and heart failure. Fibrosis was observed in rats exposed to 6 mg/m3 of hydrous magnesium silicate (talc) for 113 or 122 weeks. Chronic respiratory disease has been observed in workers exposed to up to 3.0 mg/m3 of airborne talc ore free of asbestos and silica. Significant lung effects have been observed in animals following exposure to airborne concentrations of Carbon Black of less than 100 mg/m3. (AB010004, AB010009, AB010010, AB010011)

Carcinogenicity Contains potential carcinogens. (AB010000, AB010003, AB010004, AB010007, AB010008, AB010009, AB010010, AB010011, AB010012)

ACGIH - Threshold Limit Values - Carcinogens

Acetone	67-64-1	A4 - Not Classifiable as a Human Carcinogen
Carbon black	1333-86-4	A4 - Not Classifiable as a Human Carcinogen
Ethylbenzene	100-41-4	A3 - Confirmed animal carcinogen with unknown relevance to humans.
Ethylene glycol monobutyl ether	111-76-2	A3 - Confirmed animal carcinogen with unknown relevance to humans.
Hydrous magnesium silicate	14807-96-6	A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers)
Titanium dioxide	13463-67-7	A4 - Not Classifiable as a Human Carcinogen
Toluene	108-88-3	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]
Ethylbenzene	100-41-4	Monograph 77 [2000]
Titanium dioxide	13463-67-7	Monograph 93 [in preparation]; Monograph 47 [1989]

IARC - Group 3 (Not Classifiable)

Ethylene glycol monobutyl ether	111-76-2	Monograph 88 [2006]
Hydrous magnesium silicate	14807-96-6	Monograph 93 [in preparation] (inhaled); Supplement 7 [1987]; Monograph 42 [1987]
Toluene	108-88-3	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.

Synergistic Materials Not available

12. Ecological Information

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

Ecotoxicity - Freshwater Algae Data

Copper, elemental	7440-50-8	72 Hr EC50 Pseudokirchneriella subcapitata: 0.0426 - 0.0535 mg/L [static]; 96 Hr EC50 Pseudokirchneriella subcapitata: 0.031 - 0.054 mg/L [static]
Ethylbenzene	100-41-4	72 Hr EC50 Pseudokirchneriella subcapitata: 4.6 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: >438 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 - 11.3 mg/L [static]; 96 Hr EC50 Pseudokirchneriella subcapitata: 1.7 - 7.6 mg/L [static]
Solvent naptha (petroleum), light aliphatic	64742-89-8	72 Hr EC50 Pseudokirchneriella subcapitata: 4700 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

Acetone	67-64-1	96 Hr LC50 Oncorhynchus mykiss: 4.74-6.33 ml/L; 96 Hr LC50 Pimephales promelas: 6210-8120 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 8300 mg/L
Copper, elemental	7440-50-8	96 Hr LC50 Pimephales promelas: 0.0068 - 0.0156 mg/L; 96 Hr LC50 Pimephales promelas: <0.3 mg/L [static]; 96 Hr LC50 Pimephales promelas: 0.2 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.052 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 1.25 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 0.3 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: 0.8 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 0.112 mg/L [flow-through]
Ethylbenzene	100-41-4	96 Hr LC50 Oncorhynchus mykiss: 11.0-18.0 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L [semi-static]; 96 Hr LC50 Pimephales promelas: 7.55-11 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 9.1-15.6 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 9.6 mg/L [static]
Ethylene glycol monobutyl ether	111-76-2	96 Hr LC50 Lepomis macrochirus: 1490 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 2950 mg/L
Hydrous magnesium silicate	14807-96-6	96 Hr LC50 Brachydanio rerio: >100 g/L [semi-static]
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

Acetone	67-64-1	15 min EC50 Photobacterium phosphoreum: 14500 mg/L
Ethylbenzene	100-41-4	30 min EC50 Photobacterium phosphoreum: 9.68 mg/L; 24 Hr EC50 Nitrosomonas: 96 mg/L
Toluene	108-88-3	30 min EC50 Photobacterium phosphoreum: 19.7 mg/L

Ecotoxicity - Water Flea Data

Acetone	67-64-1	48 Hr EC50 Daphnia magna: 10294 - 17704 mg/L [Static]; 48 Hr EC50 Daphnia magna: 12600 - 12700 mg/L
Carbon black	1333-86-4	24 Hr EC50 Daphnia magna: >5600 mg/L
Copper, elemental	7440-50-8	48 Hr EC50 Daphnia magna: 0.03 mg/L [Static]
Ethylbenzene	100-41-4	48 Hr EC50 Daphnia magna: 1.8 - 2.4 mg/L
Ethylene glycol monobutyl ether	111-76-2	24 Hr EC50 Daphnia magna: 1698 - 1940 mg/L; 48 Hr EC50 Daphnia magna: >1000 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

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. 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, flammable

Hazard class 2.1

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

Butane	106-97-8	Batch 4, published November 17, 2007
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

Acetone	67-64-1	1 %
Butane	106-97-8	1 %
Carbon black	1333-86-4	1 %
Copper, elemental	7440-50-8	1 %
Ethylbenzene	100-41-4	0.1 %
Ethylene glycol monobutyl ether	111-76-2	1 %
Toluene	108-88-3	1 %

WHMIS classification Class A - Compressed Gas, Class B - Division 5; Flammable Aerosol, 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

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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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.