



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name** Dynamic Aerosols

**Synonym(s)** Royal Blue Enamel - AB20E102  
 Florida Orange Enamel - AB20E108  
 Medium Grey Enamel - AB20E109  
 Ranch Brown Enamel - AB20E110  
 Sunshine Yellow Enamel - AB20E112  
 Real Red Enamel - AB20E114  
 Gloss Black Enamel - AB20E117  
 Gloss White Enamel - AB20E118  
 Flat Black Enamel - AB20E119  
 Flat White Enamel - AB20E125  
 Emerald Green Enamel - AB20E135  
 Clear Lacquer - AB20L118  
 Metallic Brass - AB20M101  
 Metallic Gold - AB20M102  
 Metallic Aluminum - AB20M103  
 Metallic Silver - AB20M107  
 Grey Primer - AB20P102  
 Red Oxide Primer - AB20P103  
 Urethane Gloss Varnish - AB20V128

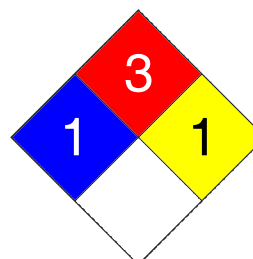
**CAS #** Mixture

**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	3
Physical Hazard	1
Personal Protection	B



## 2. Hazards Identification

**Emergency Overview** DANGER  
 Extremely flammable. Contents under pressure. Containers may explode when heated.  
 Eye and skin irritant. Contains a potential teratogen. Contains material which may cause cancer.  
 Contains a potential mutagen. (AB20M101, AB20M102, AB20M103, AB20M107, AB20V128)  
 May cause sensitisation by skin contact. (AB20M101, AB20M102)

**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. (AB20M101, AB20M102)

**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** Eyes. Respiratory system. Skin. Blood. Kidney. Liver. Lungs.

**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
P-Xylene	106-42-3	0.1 - 1
Carbon black	1333-86-4	0.1 - 1
Zinc, elemental	7440-66-6	1 - 5
Solvent naptha (petroleum), light aliphatic	64742-89-8	1 - 5
Propylene glycol monomethyl ether	107-98-2	1 - 5
N-Butyl acetate	123-86-4	1 - 5
M-Xylene	108-38-3	1 - 5
Methylisobutyl ketone	108-10-1	1 - 5
Isobutane	75-28-5	1 - 5
Ferric oxide	1309-37-1	1 - 5
Ethylbenzene	100-41-4	1 - 5
Distillates (petroleum), light hydrotreated	64742-47-8	1 - 5
Diacetone alcohol	123-42-2	1 - 5
Copper, elemental	7440-50-8	1 - 5
Aluminum, elemental	7429-90-5	1 - 5
2-Propanol, 1-methoxy-, acetate	108-65-6	1 - 5
Naptha (petroleum), hydrotreated light	64742-49-0	10 - 30
Methylene chloride	75-09-2	10 - 30
Methane, oxybis-	115-10-6	10 - 30
Acetone	67-64-1	10 - 30
Toluene	108-88-3	3 - 7
Stoddard solvent	8052-41-3	3 - 7
Propane	74-98-6	3 - 7
<b>Composition comments</b>	NOTE: May contain these chemicals	

### 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.

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## 5. Fire-fighting Measures

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<b>Flammable properties</b>	Flammable aerosol by flame projection test. 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>	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.
<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

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## 6. Accidental Release Measures

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<b>Personal precautions</b>	Keep unnecessary personnel away. 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>	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.
<b>Methods for cleaning up</b>	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.

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## 7. Handling and Storage

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<b>Handling</b>	Use good industrial hygiene practices in handling this material.
<b>Storage</b>	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
2-Propanol, 1-methoxy-, acetate	<b>ACGIH-TLV</b> Not established
Acetone	<b>ACGIH-TLV</b> TWA: 500 ppm STEL: 750 ppm
Aluminum, elemental	<b>ACGIH-TLV</b> TWA: 1 mg/m3
Carbon black	<b>ACGIH-TLV</b> TWA: 3.5 mg/m3
Copper, elemental	<b>ACGIH-TLV</b> TWA: 0.2 mg/m3
Diacetone alcohol	<b>ACGIH-TLV</b> TWA: 50 ppm
Distillates (petroleum), light hydrotreated	<b>ACGIH-TLV</b> Not established
Ethylbenzene	<b>ACGIH-TLV</b> TWA: 100 ppm STEL: 125 ppm
Ferric oxide	<b>ACGIH-TLV</b> TWA: 5 mg/m3
Isobutane	<b>ACGIH-TLV</b> TWA: 1000 ppm
Methane, oxybis-	<b>ACGIH-TLV</b> Not established
Methylene chloride	<b>ACGIH-TLV</b> TWA: 50 ppm
Methylisobutyl ketone	<b>ACGIH-TLV</b> TWA: 50 ppm STEL: 75 ppm
M-Xylene	<b>ACGIH-TLV</b> TWA: 100 ppm STEL: 150 ppm
Naptha (petroleum), hydrotreated light	<b>ACGIH-TLV</b> Not established
N-Butyl acetate	<b>ACGIH-TLV</b> TWA: 150 ppm STEL: 200 ppm
Propane	<b>ACGIH-TLV</b> TWA: 1000 ppm

Propylene glycol monomethyl ether	<b>ACGIH-TLV</b> TWA: 100 ppm STEL: 150 ppm
P-Xylene	<b>ACGIH-TLV</b> TWA: 100 ppm STEL: 150 ppm
Solvent naphtha (petroleum), light aliphatic	<b>ACGIH-TLV</b> Not established
Stoddard solvent	<b>ACGIH-TLV</b> TWA: 100 ppm
Toluene	<b>ACGIH-TLV</b> TWA: 20 ppm Skin: 50 ppm
Zinc, elemental	<b>ACGIH-TLV</b> Not established

<b>Engineering controls</b>	General ventilation normally adequate.
<b>Personal protective equipment</b>	
<b>Eye/Face protection</b>	Wear safety glasses with side shields.
<b>Hand protection</b>	Rubber gloves. Confirm with a reputable supplier first.
<b>Skin and body protection</b>	As required by employer code.
<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
<b>General hygiene considerations</b>	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

<b>Appearance</b>	Aerosol.
<b>Colour</b>	Various colours
<b>Form</b>	Aerosol.
<b>Odour</b>	Hydrocarbon
<b>Odour threshold</b>	Not available
<b>Physical state</b>	Liquid
<b>pH</b>	Not available
<b>Freezing point</b>	Not available
<b>Boiling point</b>	39 - 168 °C (102.20 - 334.40 °F)
<b>Pour point</b>	Not available
<b>Flash point</b>	-18 - 4 °C (-0.40 - 39.20 °F)
<b>Evaporation Rate</b>	> 1 (BuAc = 1)
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability Limits in Air, Upper, % by Volume</b>	Not available
<b>Vapour pressure</b>	> 275 kPa
<b>Vapour density</b>	> 1 (Air = 1)
<b>Specific gravity</b>	0.78 - 1.18 (H <sub>2</sub> O = 1)
<b>Octanol/water coefficient</b>	Not available
<b>Solubility (H<sub>2</sub>O)</b>	Insoluble
<b>Auto-ignition temperature</b>	Not available
<b>Viscosity</b>	Water thin
<b>Percent volatile</b>	79 - 93

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## 10. Stability and Reactivity

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

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## 11. Toxicological Information

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### Component analysis - LC50

Ingredient(s)	LC50
2-Propanol, 1-methoxy-, acetate	Not available
Acetone	Not available
Aluminum, elemental	Not available
Carbon black	Not available
Copper, elemental	Not available
Diacetone alcohol	Not available
Distillates (petroleum), light hydrotreated	5.2 mg/l/4h rat
Ethylbenzene	Not available
Ferric oxide	Not available
Isobutane	658 mg/l/4h rat
Methane, oxybis-	308.5 mg/l/4h rat
Methylene chloride	14250 mg/m3 rat
Methylisobutyl ketone	8.2 mg/l/4h rat
M-Xylene	6451 ppm mouse; 5000 mg/l/4h rat
Naptha (petroleum), hydrotreated light	20 ppm rat; 20 mg/l/4h rat
N-Butyl acetate	2000 ppm rat; 2000 mg/l/4h rat
Propane	Not available
Propylene glycol monomethyl ether	Not available
P-Xylene	4800 ppm mouse; 4550 ppm rat; 4550 mg/l/4h rat
Solvent naptha (petroleum), light aliphatic	1400 mg/l/4h rat
Stoddard solvent	> 5500 mg/m3 rat
Toluene	12.5 mg/l/4h rat
Zinc, elemental	Not available

**Component analysis - Oral LD50**

<b>Ingredient(s)</b>	<b>LD50</b>
2-Propanol, 1-methoxy-, acetate	8532 mg/kg rat
Acetone	5800 mg/kg rat; 5340 mg/kg rabbit; 3000 mg/kg mouse; 2857 mg/kg human
Aluminum, elemental	Not available
Carbon black	8000 mg/kg rat
Copper, elemental	Not available
Diacetone alcohol	4000 mg/kg rat
Distillates (petroleum), light hydrotreated	5000 mg/kg rat
Ethylbenzene	3500 mg/kg rat
Ferric oxide	5500 mg/kg rat
Isobutane	Not available
Methane, oxybis-	Not available
Methylene chloride	1410 mg/kg rat
Methylisobutyl ketone	2080 mg/kg rat; 1200 mg/kg mouse
M-Xylene	4300 mg/kg rat
Naptha (petroleum), hydrotreated light	5000 mg/kg rat
N-Butyl acetate	10770 mg/kg rat; 7100 mg/kg mouse; 7400 mg/kg rabbit
Propane	Not available
Propylene glycol monomethyl ether	3739 mg/kg rat; 11700 mg/kg mouse
P-Xylene	4030 mg/kg rat
Solvent naptha (petroleum), light aliphatic	5000 mg/kg rat
Stoddard solvent	5000 mg/kg rat
Toluene	636 mg/kg rat
Zinc, elemental	Not available

**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. (AB20M101, AB20M102)

**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**

May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material. (AB20M101, AB20M102)

**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
Aluminum, elemental	7429-90-5	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.
Ferric oxide	1309-37-1	A4 - Not Classifiable as a Human Carcinogen
Methylene chloride	75-09-2	A3 - Confirmed animal carcinogen with unknown relevance to humans.
M-Xylene	108-38-3	A4 - Not Classifiable as a Human Carcinogen
P-Xylene	106-42-3	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]
Methylene chloride	75-09-2	Monograph 71 [1999]; Supplement 7 [1987]

**IARC - Group 3 (Not Classifiable)**

Ferric oxide	1309-37-1	Supplement 7 [1987]; Monograph 1 [1972]
M-Xylene	108-38-3	Monograph 71 [1999] (listed under Xylenes)
P-Xylene	106-42-3	Monograph 71 [1999] (listed under Xylenes)
Toluene	108-88-3	Monograph 71 [1999]; Monograph 47 [1989]

**Mutagenicity**

Methylene chloride is considered mutagenic based on positive results obtained in mice exposed by inhalation. (AB20M101, AB20M102, AB20M103, AB20M107, AB20V128)

**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

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## 12. Ecological Information

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**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 <i>Pseudokirchneriella subcapitata</i> : 0.0426 - 0.0535 mg/L [static]; 96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 0.031 - 0.054 mg/L [static]
Ethylbenzene	100-41-4	72 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 4.6 mg/L; 96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : >438 mg/L; 72 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 2.6 - 11.3 mg/L [static]; 96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 1.7 - 7.6 mg/L [static]
Methylene chloride	75-09-2	96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : >500 mg/L; 72 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : >500 mg/L
Methylisobutyl ketone	108-10-1	96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 400 mg/L
M-Xylene	108-38-3	72 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 4.9 mg/L [static]
N-Butyl acetate	123-86-4	72 Hr EC50 <i>Desmodesmus subspicatus</i> : 674.7 mg/L
P-Xylene	106-42-3	3 Hr EC50 <i>Chlorella vulgaris</i> : 105.1 mg/L; 72 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 3.2 mg/L [static]
Solvent naphtha (petroleum), light aliphatic	64742-89-8	72 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 4700 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]
Zinc, elemental	7440-66-6	96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 0.11 - 0.271 mg/L [static]; 72 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 0.09 - 0.125 mg/L [static]

**Ecotoxicity - Freshwater Fish Species Data**

2-Propanol, 1-methoxy-, acetate	108-65-6	96 Hr LC50 <i>Pimephales promelas</i> : 161 mg/L [static]
Acetone	67-64-1	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 4.74-6.33 mg/L; 96 Hr LC50 <i>Pimephales promelas</i> : 6210-8120 mg/L [static]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 8300 mg/L
Copper, elemental	7440-50-8	96 Hr LC50 <i>Pimephales promelas</i> : 0.0068 - 0.0156 mg/L; 96 Hr LC50 <i>Pimephales promelas</i> : <0.3 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 0.2 mg/L [flow-through]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 0.052 mg/L [flow-through]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 1.25 mg/L [static]; 96 Hr LC50 <i>Cyprinus carpio</i> : 0.3 mg/L [semi-static]; 96 Hr LC50 <i>Cyprinus carpio</i> : 0.8 mg/L [static]; 96 Hr LC50 <i>Poecilia reticulata</i> : 0.112 mg/L [flow-through]
Diacetone alcohol	123-42-2	96 Hr LC50 <i>Lepomis macrochirus</i> : 420 mg/L [static]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 420 mg/L
Distillates (petroleum), light hydrotreated	64742-47-8	96 Hr LC50 <i>Pimephales promelas</i> : 45 mg/L [flow-through]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 2.2 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 2.4 mg/L [static]
Ethylbenzene	100-41-4	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 11.0-18.0 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 4.2 mg/L [semi-static]; 96 Hr LC50 <i>Pimephales promelas</i> : 7.55-11 mg/L [flow-through]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 32 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 9.1-15.6 mg/L [static]; 96 Hr LC50 <i>Poecilia reticulata</i> : 9.6 mg/L [static]
Methylene chloride	75-09-2	96 Hr LC50 <i>Pimephales promelas</i> : 140.8-277.8 mg/L [flow-through]; 96 Hr LC50 <i>Pimephales promelas</i> : 262-855 mg/L [static]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 193 mg/L [static]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 193 mg/L [flow-through]
Methylisobutyl ketone	108-10-1	96 Hr LC50 <i>Pimephales promelas</i> : 496-514 mg/L [flow-through]
M-Xylene	108-38-3	96 Hr LC50 <i>Pimephales promelas</i> : 14.3-18 mg/L [flow-through]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 8.4 mg/L [semi-static]; 96 Hr LC50 <i>Poecilia reticulata</i> : 12.9 mg/L [semi-static]
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]
Propylene glycol monomethyl ether	107-98-2	96 Hr LC50 <i>Pimephales promelas</i> : 20.8 mg/L [static]; 96 Hr LC50 <i>Leuciscus idus</i> : 4600-10000 mg/L [static]
P-Xylene	106-42-3	96 Hr LC50 <i>Pimephales promelas</i> : 7.2-9.9 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 2.6 mg/L; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 2.6 mg/L [static]; 96 Hr LC50 <i>Poecilia reticulata</i> : 8.8 mg/L [semi-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.
Zinc, elemental	7440-66-6	96 Hr LC50 <i>Pimephales promelas</i> : 2.16-3.05 mg/L [flow-through]; 96 Hr LC50 <i>Pimephales promelas</i> : 0.211-0.269 mg/L [semi-static]; 96 Hr LC50 <i>Pimephales promelas</i> : 2.66 mg/L [static]; 96 Hr LC50 <i>Cyprinus carpio</i> : 30 mg/L; 96 Hr LC50 <i>Cyprinus carpio</i> : 0.45 mg/L [semi-static]; 96 Hr LC50 <i>Cyprinus carpio</i> : 7.8 mg/L [static]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 3.5 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 0.24 mg/L [flow-through]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 0.

**Ecotoxicity - Microtox Data**

Acetone	67-64-1	15 min EC50 <i>Photobacterium phosphoreum</i> : 14500 mg/L
Ethylbenzene	100-41-4	30 min EC50 <i>Photobacterium phosphoreum</i> : 9.68 mg/L; 24 Hr EC50 <i>Nitrosomonas</i> : 96 mg/L
Methylene chloride	75-09-2	24 Hr EC50 <i>Nitrosomonas</i> : 1 mg/L; 15 min EC50 <i>Photobacterium phosphoreum</i> : 2.88 mg/L
Methylisobutyl ketone	108-10-1	5 min EC50 <i>Photobacterium phosphoreum</i> : 79.6 mg/L
M-Xylene	108-38-3	24 hr EC50 <i>Photobacterium phosphoreum</i> : 0.0084 mg/L

N-Butyl acetate	123-86-4	5 min EC50 Photobacterium phosphoreum: 70.0 mg/L; 15 min EC50 Photobacterium phosphoreum: 82.2 mg/L; 30 min EC50 Photobacterium phosphoreum: 98.9 mg/L; 18 Hr EC50 Pseudomonas putida: 959 mg/L
P-Xylene	106-42-3	30 min EC50 Photobacterium phosphoreum: 5.7 mg/L
Toluene	108-88-3	30 min EC50 Photobacterium phosphoreum: 19.7 mg/L
<b>Ecotoxicity - Water Flea Data</b>		
2-Propanol, 1-methoxy-, acetate	108-65-6	48 Hr EC50 Daphnia magna: >500 mg/L
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]
Diacetone alcohol	123-42-2	24 Hr EC50 Daphnia magna: 8750 mg/L
Distillates (petroleum), light hydrotreated	64742-47-8	96 Hr LC50 Den-dronereides heteropoda: 4720 mg/L
Ethylbenzene	100-41-4	48 Hr EC50 Daphnia magna: 1.8 - 2.4 mg/L
Methylene chloride	75-09-2	48 Hr EC50 Daphnia magna: 1532 - 1847 mg/L [Static]; 48 Hr EC50 Daphnia magna: 190 mg/L
Methylisobutyl ketone	108-10-1	48 Hr EC50 Daphnia magna: 170 mg/L
M-Xylene	108-38-3	48 Hr EC50 Daphnia magna: 2.81 - 5.0 mg/L [Static]
Naptha (petroleum), hydrotreated light	64742-49-0	96 Hr LC50 Chaetogammarus marinus: 2.6 mg/L
N-Butyl acetate	123-86-4	24 Hr EC50 Daphnia magna: 72.8 mg/L
Propylene glycol monomethyl ether	107-98-2	48 Hr EC50 Daphnia magna: 23300 mg/L
P-Xylene	106-42-3	48 Hr EC50 Daphnia magna: 3.55 - 6.31 mg/L [Static]
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
Zinc, elemental	7440-66-6	48 Hr EC50 Daphnia magna: 0.139 - 0.908 mg/L [Static]

<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Persistence and degradability</b>	Not available
<b>Bioaccumulation/accumulation</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Chemical fate information</b>	Not available
<b>Other adverse effects</b>	Not available

### 13. Disposal Considerations

<b>Waste codes</b>	Not available
<b>Disposal instructions</b>	Review federal, provincial, and local government requirements prior to disposal. Do not puncture or incinerate container.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available

### 14. Transport Information

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

**Basic shipping requirements:**

<b>Proper shipping name</b>	AEROSOLS, flammable
<b>Hazard class</b>	2.1
<b>UN number</b>	1950
<b>Additional information:</b>	
<b>Special provisions</b>	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
Isobutane	75-28-5	Batch 4, published November 17, 2007

#### Canada - CEPA - Schedule I - List of Toxic Substances

Methylene chloride	75-09-2	Present
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#### Canada - WHMIS - Ingredient Disclosure List

Acetone	67-64-1	1 %
Aluminum, elemental	7429-90-5	1 %
Carbon black	1333-86-4	1 %
Copper, elemental	7440-50-8	1 %
Diacetone alcohol	123-42-2	1 %
Ethylbenzene	100-41-4	0.1 %
Ferric oxide	1309-37-1	1 %
Methylene chloride	75-09-2	0.1 %
Methylisobutyl ketone	108-10-1	1 %
M-Xylene	108-38-3	1 %
N-Butyl acetate	123-86-4	1 %
Propylene glycol monomethyl ether	107-98-2	1 %
P-Xylene	106-42-3	0.1 %
Stoddard solvent	8052-41-3	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.

### Issue date

12-Jan-2010

### Effective Date

01-Feb-2010

### Expiry Date

01-Feb-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.