

SECTION 1: Identification

1.1. Product identifier

Product form : Mixtures
 Product name : CLOVASHIELD ACRYLIC EPOXY ENAMEL WHITE
 Product code : 83800A
 Product group : Trade product

1.2. Recommended use and restrictions on use

Recommended use : Coatings and paints, thinners, paint removers

1.3. Supplier

Cloverdale Paint Inc.
 400- 2630 Croydon Drive
 V3Z 6T3 Winnipeg - CANADA
 T 1-(604)-596-6261
btinsley@cloverdalepaint.com - www.cloverdalepaint.com

1.4. Emergency telephone number

Emergency number : CANUTEC 24 hr. Emergency Number (613) 996-6666

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS-CA)

Flammable liquids H225
 Category 2
 Skin corrosion/irritation H315
 Category 2
 Serious eye damage/eye irritation H318
 Category 1
 Carcinogenicity H351
 Category 2
 Specific target organ toxicity (repeated exposure) Category 2 H373
 Hazardous to the aquatic environment - Acute Hazard Category 2 H401

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-CA labeling

Hazard pictograms (GHS-CA) :



GHS02

GHS05

GHS08

Signal word (GHS-CA) :

Danger

Hazard statements (GHS-CA) :

H225 - Highly flammable liquid and vapor
 H315 - Causes skin irritation
 H318 - Causes serious eye damage
 H351 - Suspected of causing cancer (Dermal, Inhalation, oral)
 H373 - May cause damage to organs (kidneys, liver, lungs) through prolonged or repeated exposure (Dermal, Inhalation, oral)
 H401 - Toxic to aquatic life

Precautionary statements (GHS-CA) :

P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
 P233 - Keep container tightly closed
 P240 - Ground/bond container and receiving equipment

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P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P260 - Do not breathe mist, spray, vapors
P264 - Wash Skin thoroughly after handling
P273 - Avoid release to the environment
P280 - Wear eye protection, protective clothing, protective gloves
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water water
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P314 - Get medical advice/attention if you feel unwell
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use carbon dioxide (CO₂), foam, Dry chemical. to extinguish
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-CA)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS-CA)
TITANIUM DIOXIDE	C.I. 77891 / C.I. Pigment White 6 / Titanium oxide (TiO ₂) / CI 77891 / Titanium(IV) oxide / C.I. Pigment White 7 / Pigment White 6 / Titanium dioxide nanoparticles / TITANIUM DIOXIDE / Titanium oxide	(CAS No) 13463-67-7	23.2	Carc. 2, H351
PURE XYLENE	Benzene, dimethyl- / Dimethylbenzene (mixed isomers) / Xylene / Xylene (all isomers) / Xylene (mixed isomers) / Xylene (o-, m-, p- isomers) / Xylenes / Xylenes (mixed isomers) / Dimethylbenzene / Xylol / Benzene, dimethyl-, mixed isomers / Xylenes (all isomers) / XYLENE / C8 disubstituted benzenes / Xylenes (o-, m-, p- isomers) / Dimethylbenzene (mixed 2-, 3-, 4-isomers) / Dimethylbenzene (2-, 3-, 4-isomers) / Xylene isomers mixture / Dimethylbenzenes / Xylenes (ortho-, meta-, para-isomers)	(CAS No) 1330-20-7	12.1	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Aquatic Acute 1, H400
ETHYLBENZENE	Benzene, ethyl- / Phenylethane	(CAS No) 100-41-4	5.2	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapor), H332 STOT RE 2, H373 Asp. Tox. 1, H304
ISOBUTANOL	1-Propanol, 2-methyl- / 2-Methyl-1-propanol / 2-Methylpropan-1-ol / Isobutanol / Butanol, iso- / 2-Methylpropanol	(CAS No) 78-83-1	2.4	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336
N-BUTANOL	n-Butyl alcohol / n-Butanol / Butanol, 1- / 1-Butyl alcohol / 1-Hydroxybutane / Butyl alcohol, n- / Butanol, n- / Butan-1-ol / Normal butyl alcohol / N-BUTYL ALCOHOL / Butyl alcohol / Butanol	(CAS No) 71-36-3	1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.

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First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause respiratory irritation. May cause headache and dizziness.
Symptoms/effects after skin contact	: May cause moderate irritation. Repeated exposure may cause skin dryness or cracking. Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Dry chemical. Foam. Carbon dioxide.
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5.2. Unsuitable extinguishing media

No additional information available	
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5.3. Specific hazards arising from the hazardous product

Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Eliminate all ignition sources if safe to do so. Evacuate area. Exercise caution when fighting any chemical fire. Use extinguishing agent suitable for surrounding fire. Use water spray or fog for cooling exposed containers. Wear personal protective equipment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid contact with skin and eyes. Avoid inhalation of vapor and spray mist. Eliminate every possible source of ignition. Evacuate area. Ground and bond container and receiving equipment. Soak up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel). Ventilate area. Wear personal protective equipment.
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6.2. Methods and materials for containment and cleaning up

For containment	: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect spillage. Dispose of contaminated materials in accordance with current regulations.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8 "Exposure controls/personal protection"	
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Do not breathe mist, spray, vapors. Avoid contact with skin and eyes.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.
Additional hazards when processed	: Avoid breathing dust, mist or spray. Avoid contact with skin and eyes. Ensure good ventilation of the work station. Ground and bond container and receiving equipment. Handle carefully.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Keep container closed when not in use. Provide local exhaust or general room ventilation. Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.
Incompatible products	: Oxidizing agent. Strong bases. strong acids.
Incompatible materials	: cyanides. Isocyanates. Aldehydes. Halogens. Water. Reducing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ETHYLBENZENE (100-41-4)		
USA - ACGIH	ACGIH TWA (ppm)	20 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Canada (Quebec)	VECD (mg/m ³)	543 mg/m ³
Canada (Quebec)	VECD (ppm)	125 ppm
Canada (Quebec)	VEMP (mg/m ³)	434 mg/m ³
Canada (Quebec)	VEMP (ppm)	100 ppm
Alberta	OEL STEL (mg/m ³)	543 mg/m ³
Alberta	OEL STEL (ppm)	125 ppm
Alberta	OEL TWA (mg/m ³)	434 mg/m ³
Alberta	OEL TWA (ppm)	100 ppm
British Columbia	OEL TWA (ppm)	20 ppm
Manitoba	OEL TWA (ppm)	20 ppm
New Brunswick	OEL STEL (mg/m ³)	543 mg/m ³
New Brunswick	OEL STEL (ppm)	125 ppm
New Brunswick	OEL TWA (mg/m ³)	434 mg/m ³
New Brunswick	OEL TWA (ppm)	100 ppm
New Foundland & Labrador	OEL TWA (ppm)	20 ppm
Nova Scotia	OEL TWA (ppm)	20 ppm
Nunavut	OEL STEL (ppm)	125 ppm
Nunavut	OEL TWA (ppm)	100 ppm
Northwest Territories	OEL STEL (ppm)	125 ppm
Northwest Territories	OEL TWA (ppm)	100 ppm
Ontario	OEL TWA (ppm)	20 ppm
Prince Edward Island	OEL TWA (ppm)	20 ppm
Saskatchewan	OEL STEL (ppm)	125 ppm
Saskatchewan	OEL TWA (ppm)	100 ppm
Yukon	OEL STEL (mg/m ³)	545 mg/m ³
Yukon	OEL STEL (ppm)	125 ppm
Yukon	OEL TWA (mg/m ³)	435 mg/m ³
Yukon	OEL TWA (ppm)	100 ppm
PURE XYLENE (1330-20-7)		
USA - ACGIH	ACGIH TWA (ppm)	100 ppm
USA - ACGIH	ACGIH STEL (ppm)	150 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Canada (Quebec)	VECD (mg/m ³)	651 mg/m ³
Canada (Quebec)	VECD (ppm)	150 ppm
Canada (Quebec)	VEMP (mg/m ³)	434 mg/m ³
Canada (Quebec)	VEMP (ppm)	100 ppm
Alberta	OEL STEL (mg/m ³)	651 mg/m ³
Alberta	OEL STEL (ppm)	150 ppm

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PURE XYLENE (1330-20-7)		
Alberta	OEL TWA (mg/m ³)	434 mg/m ³
Alberta	OEL TWA (ppm)	100 ppm
British Columbia	OEL STEL (ppm)	150 ppm
British Columbia	OEL TWA (ppm)	100 ppm
Manitoba	OEL STEL (ppm)	150 ppm
Manitoba	OEL TWA (ppm)	100 ppm
New Brunswick	OEL STEL (mg/m ³)	651 mg/m ³
New Brunswick	OEL STEL (ppm)	150 ppm
New Brunswick	OEL TWA (mg/m ³)	434 mg/m ³
New Brunswick	OEL TWA (ppm)	100 ppm
New Foundland & Labrador	OEL STEL (ppm)	150 ppm
New Foundland & Labrador	OEL TWA (ppm)	100 ppm
Nova Scotia	OEL STEL (ppm)	150 ppm
Nova Scotia	OEL TWA (ppm)	100 ppm
Nunavut	OEL STEL (ppm)	150 ppm
Nunavut	OEL TWA (ppm)	100 ppm
Northwest Territories	OEL STEL (ppm)	150 ppm
Northwest Territories	OEL TWA (ppm)	100 ppm
Ontario	OEL STEL (ppm)	150 ppm
Ontario	OEL TWA (ppm)	100 ppm
Prince Edward Island	OEL STEL (ppm)	150 ppm
Prince Edward Island	OEL TWA (ppm)	100 ppm
Saskatchewan	OEL STEL (ppm)	150 ppm
Saskatchewan	OEL TWA (ppm)	100 ppm
Yukon	OEL STEL (mg/m ³)	650 mg/m ³
Yukon	OEL STEL (ppm)	150 ppm
Yukon	OEL TWA (mg/m ³)	435 mg/m ³
Yukon	OEL TWA (ppm)	100 ppm
ISOBUTANOL (78-83-1)		
USA - ACGIH	ACGIH TWA (ppm)	50 ppm
USA - ACGIH	Remark (ACGIH)	Skin & eye irr
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	300 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Canada (Quebec)	VEMP (mg/m ³)	152 mg/m ³
Canada (Quebec)	VEMP (ppm)	50 ppm
Alberta	OEL TWA (mg/m ³)	152 mg/m ³
Alberta	OEL TWA (ppm)	50 ppm
British Columbia	OEL TWA (ppm)	50 ppm
Manitoba	OEL TWA (ppm)	50 ppm
New Brunswick	OEL TWA (mg/m ³)	152 mg/m ³
New Brunswick	OEL TWA (ppm)	50 ppm
New Foundland & Labrador	OEL TWA (ppm)	50 ppm
Nova Scotia	OEL TWA (ppm)	50 ppm
Nunavut	OEL STEL (ppm)	60 ppm
Nunavut	OEL TWA (ppm)	50 ppm
Northwest Territories	OEL STEL (ppm)	60 ppm
Northwest Territories	OEL TWA (ppm)	50 ppm
Ontario	OEL TWA (ppm)	50 ppm
Prince Edward Island	OEL TWA (ppm)	50 ppm

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ISOBUTANOL (78-83-1)		
Saskatchewan	OEL STEL (ppm)	60 ppm
Saskatchewan	OEL TWA (ppm)	50 ppm
Yukon	OEL STEL (mg/m ³)	225 mg/m ³
Yukon	OEL STEL (ppm)	75 ppm
Yukon	OEL TWA (mg/m ³)	150 mg/m ³
Yukon	OEL TWA (ppm)	50 ppm
N-BUTANOL (71-36-3)		
USA - ACGIH	ACGIH TWA (ppm)	20 ppm
USA - ACGIH	Remark (ACGIH)	Eye & URT irr
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	300 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Canada (Quebec)	PLAFOND (mg/m ³)	152 mg/m ³
Canada (Quebec)	PLAFOND (ppm)	50 ppm
Alberta	OEL TWA (mg/m ³)	60 mg/m ³
Alberta	OEL TWA (ppm)	20 ppm
British Columbia	OEL Ceiling (ppm)	30 ppm
British Columbia	OEL TWA (ppm)	15 ppm
Manitoba	OEL TWA (ppm)	20 ppm
New Brunswick	OEL Ceiling (mg/m ³)	152 mg/m ³
New Brunswick	OEL Ceiling (ppm)	50 ppm
New Foundland & Labrador	OEL TWA (ppm)	20 ppm
Nova Scotia	OEL TWA (ppm)	20 ppm
Nunavut	OEL STEL (ppm)	30 ppm
Nunavut	OEL TWA (ppm)	20 ppm
Northwest Territories	OEL STEL (ppm)	30 ppm
Northwest Territories	OEL TWA (ppm)	20 ppm
Ontario	OEL TWA (ppm)	20 ppm
Prince Edward Island	OEL TWA (ppm)	20 ppm
Saskatchewan	OEL STEL (ppm)	30 ppm
Saskatchewan	OEL TWA (ppm)	20 ppm
Yukon	OEL Ceiling (mg/m ³)	150 mg/m ³
Yukon	OEL Ceiling (ppm)	50 ppm
TITANIUM DIOXIDE (13463-67-7)		
USA - ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust)
Canada (Quebec)	VEMP (mg/m ³)	10 mg/m ³ (containing no Asbestos and <1% Crystalline silica-total dust)
Alberta	OEL TWA (mg/m ³)	10 mg/m ³
British Columbia	OEL TWA (mg/m ³)	10 mg/m ³ (total dust)
Manitoba	OEL TWA (mg/m ³)	10 mg/m ³
New Brunswick	OEL TWA (mg/m ³)	10 mg/m ³
New Foundland & Labrador	OEL TWA (mg/m ³)	10 mg/m ³
Nova Scotia	OEL TWA (mg/m ³)	10 mg/m ³
Nunavut	OEL STEL (mg/m ³)	20 mg/m ³
Nunavut	OEL TWA (mg/m ³)	10 mg/m ³
Northwest Territories	OEL STEL (mg/m ³)	20 mg/m ³
Northwest Territories	OEL TWA (mg/m ³)	10 mg/m ³
Ontario	OEL TWA (mg/m ³)	10 mg/m ³
Prince Edward Island	OEL TWA (mg/m ³)	10 mg/m ³
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³

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TITANIUM DIOXIDE (13463-67-7)		
Saskatchewan	OEL TWA (mg/m ³)	10 mg/m ³
Yukon	OEL STEL (mg/m ³)	20 mg/m ³
Yukon	OEL TWA (mg/m ³)	30 mppcf

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gas mask. Gloves. Protective clothing. Safety glasses.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: white
Odor	: aromatic
Odor threshold	: No data available
pH	: 7
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: -40 °C
Boiling point	: 118 - 177 °C
Flash point	: 15 °C TAG CLOSED CUP
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: 18.8 mm Hg
Vapor pressure at 50 °C	: No data available
Specific gravity	: 1.252
Solubility	: Negligible.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: LEL: 0.6 vol % UEL: 13.8 vol %

9.2. Other information

VOC content : 482 g/l

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	: Highly flammable liquid and vapor.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Avoid contact with hot surfaces. Heat. No flames, No sparks. Eliminate all sources of ignition.
Incompatible materials	: acids. Aldehydes. alkaline products. cyanides. Isocyanates. Halogens. Oxidizing agent. Reducing agents. water.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Likely routes of exposure : Dermal. Ingestion. Inhalation.

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ETHYLBENZENE (100-41-4)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	15400 mg/kg
LC50 inhalation rat (mg/l)	17.4 mg/l/4h

PURE XYLENE (1330-20-7)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	> 4350 mg/kg
LC50 inhalation rat (mg/l)	29.08 mg/l/4h

ISOBUTANOL (78-83-1)	
LD50 oral rat	2460 mg/kg
LD50 dermal rabbit	3400 mg/kg
LC50 inhalation rat (mg/l)	> 6.5 mg/l/4h

N-BUTANOL (71-36-3)	
LD50 oral rat	700 mg/kg
LD50 dermal rabbit	3402 mg/kg
LC50 inhalation rat (ppm)	> 8000 ppm/4h

TITANIUM DIOXIDE (13463-67-7)	
LD50 oral rat	> 10000 mg/kg

Skin corrosion/irritation	: Causes skin irritation. pH: 7
Serious eye damage/irritation	: Causes serious eye damage. pH: 7
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer (Dermal, Inhalation, oral).
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (kidneys, liver, lungs) through prolonged or repeated exposure (Dermal, Inhalation, oral).
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life.

ETHYLBENZENE (100-41-4)	
LC50 fish 1	11.0 - 18.0 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

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ETHYLBENZENE (100-41-4)	
LC50 fish 2	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
EC50 Daphnia 1	1.8 - 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
PURE XYLENE (1330-20-7)	
LC50 fish 1	13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	2.661 - 4.093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	3.82 mg/l (Exposure time: 48 h - Species: water flea)
EC50 Daphnia 2	0.6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)
ISOBUTANOL (78-83-1)	
LC50 fish 1	1370 - 1670 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	375 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	1300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Daphnia 2	1070 - 1933 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
N-BUTANOL (71-36-3)	
LC50 fish 1	1730 - 1910 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 fish 2	1740 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	1983 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Daphnia 2	1897 - 2072 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

12.2. Persistence and degradability

ISOBUTANOL (78-83-1)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

ETHYLBENZENE (100-41-4)	
BCF fish 1	15
Log Pow	3.2
PURE XYLENE (1330-20-7)	
BCF fish 1	0.6 - 15
Log Pow	2.77 - 3.15
ISOBUTANOL (78-83-1)	
BCF fish 1	(no bioconcentration expected)
Log Pow	0.79 (at 25 °C)
N-BUTANOL (71-36-3)	
BCF fish 1	0.64
Log Pow	0.785 (at 25 °C)

12.4. Mobility in soil

ETHYLBENZENE (100-41-4)	
Log Pow	3.2
PURE XYLENE (1330-20-7)	
Log Pow	2.77 - 3.15
ISOBUTANOL (78-83-1)	
Log Pow	0.79 (at 25 °C)
N-BUTANOL (71-36-3)	
Log Pow	0.785 (at 25 °C)

12.5. Other adverse effects

GWPmix comment : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Avoid release to the environment.
Additional information : Flammable vapors may accumulate in the container.

SECTION 14: Transport information

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14.1. Basic shipping description

In accordance with TDG

TDG

UN-No. (TDG)	: UN1263
Packing group	: II - Medium Danger
TDG Primary Hazard Classes	: 3 - Class 3 - Flammable Liquids
Transport document description	: UN1263 PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) with not more than 20 per cent nitrocellulose by mass if the nitrogen content of the nitrocellulose is not more than 12.6 per cent by mass), 3, II
Proper Shipping Name (TDG)	: PAINT including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) with not more than 20 per cent nitrocellulose by mass if the nitrogen content of the nitrocellulose is not more than 12.6 per cent by mass
Hazard labels (TDG)	: 3 - Flammable liquids



TDG Special Provisions	: 59 - Substances that are listed by name in Schedule 1 must not be transported under this shipping name. Substances transported under this shipping name may contain not more than 20 per cent nitrocellulose if the nitrocellulose contains not more than 12.6 per cent nitrogen (by dry mass). 142 - The following shipping names may be used to meet the requirements of Part 3 (Documentation) and Part 4 (Dangerous Goods Safety Marks) when these dangerous goods are offered for transport in the same means of containment: (a)"PAINT RELATED MATERIAL" may be used for a means of containment containing both paint and paint related material; (b)"PAINT RELATED MATERIAL, CORROSIVE, FLAMMABLE" may be used for a means of containment containing both paint, corrosive, flammable, and paint related material, corrosive, flammable; (c)"PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE" may be used for a means of containment containing both paint, flammable, corrosive, and paint related material, flammable, corrosive; and (d)"PRINTING INK RELATED MATERIAL" may be used for a means of containment containing both printing ink and printing ink related material. SOR/2014-306
Explosive Limit and Limited Quantity Index	: 5 L
Excepted quantities (TDG)	: E2
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5 L

14.2. Transport information/DOT

Department of Transport

DOT NA no.	: UN1263
UN-No.(DOT)	: 1263
Packing group (DOT)	: II - Medium Danger
Transport document description	: UN1263 Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base), 3, II
Proper Shipping Name (DOT)	: Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base
Contains Statement Field Selection (DOT)	:
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Division (DOT)	: 3
Hazard labels (DOT)	: 3 - Flammable liquid



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Dangerous for the environment	: No
DOT Special Provisions (49 CFR 172.102)	: 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons). B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F). TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 173
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.

14.3. Air and sea transport

IMDG

UN-No. (IMDG)	: 1263
Proper Shipping Name (IMDG)	: PAINT
Transport document description (IMDG)	: UN 1263 PAINT, 3, II
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger

IATA

UN-No. (IATA)	: 1263
Proper Shipping Name (IATA)	: Paint
Transport document description (IATA)	: UN 1263 Paint, 3, II
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

SECTION 15: Regulatory information

15.1. National regulations

ETHYLBENZENE (100-41-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

PURE XYLENE (1330-20-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

ISOBUTANOL (78-83-1)

Listed on the Canadian DSL (Domestic Substances List) inventory.

N-BUTANOL (71-36-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

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TITANIUM DIOXIDE (13463-67-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

15.2. International regulations

ETHYLBENZENE (100-41-4)

Listed on the AICS (the Australian Inventory of Chemical Substances)
Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on the Korean ECL (Existing Chemical List) inventory.
Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on Inventory of Chemicals and Chemical Substances (PICCS)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Pollutant Release and Transfer Register Law (PRTR Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

PURE XYLENE (1330-20-7)

Listed on the AICS (the Australian Inventory of Chemical Substances)
Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on the Korean ECL (Existing Chemical List) inventory.
Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on Inventory of Chemicals and Chemical Substances (PICCS)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Poisonous and Deleterious Substances Control Law
Pollutant Release and Transfer Register Law (PRTR Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

ISOBUTANOL (78-83-1)

Listed on the AICS (the Australian Inventory of Chemical Substances)
Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on the Korean ECL (Existing Chemical List) inventory.
Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on Inventory of Chemicals and Chemical Substances (PICCS)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

N-BUTANOL (71-36-3)

Listed on the AICS (the Australian Inventory of Chemical Substances)
Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on Industrial Safety and Health Law Substances (ISHL)
Listed on the Korean ECL (Existing Chemical List) inventory.
Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on Inventory of Chemicals and Chemical Substances (PICCS)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

TITANIUM DIOXIDE (13463-67-7)

Listed on the AICS (the Australian Inventory of Chemical Substances)
Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on the Korean ECL (Existing Chemical List) inventory.
Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on Inventory of Chemicals and Chemical Substances (PICCS)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

SECTION 16: Other information

SDS Major/Minor : None
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Full text of H-phrases:

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life

SDS Canada (GHS)

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